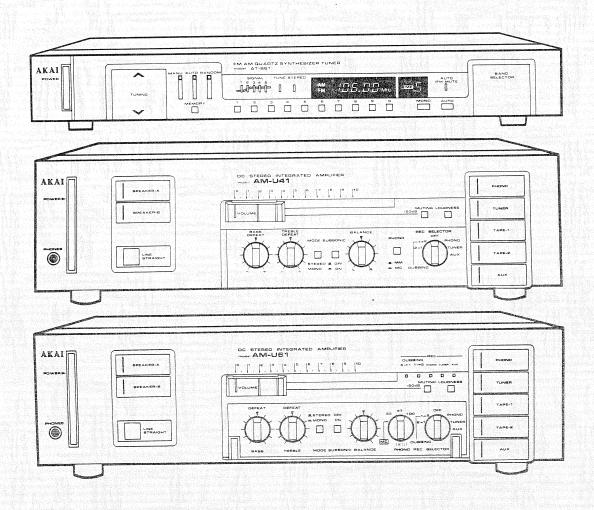
ARAII SERVICE MANUAL



FM AM QUARTZ SYNTHESIZER TUNER

MODEL AT-S61/L/J

DC STEREO INTEGRATED AMPLIFIER

AM-U47
MODEL AM-U67



AT-S61/L/J



AM-U41



AM-U61

fm am quartz synthesizer tuner model AT-S61/L/J

DC STEREO INTEGRATED AMPLIFIER MODEL AM-U41

DC STEREO INTEGRATED AMPLIFIER MODEL AM-U61

This manual is applicable to both silver and pearl shadow panel models.

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SAFETY INSTRUCTION

SAFETY CHECK AFTER SERVICING

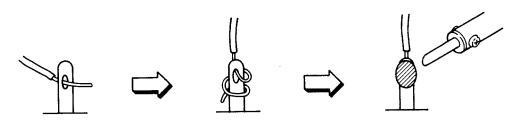
Confirm the specified insulation resistance between power cord plug prongs and externally exposed parts of the set is greater than 10 Mohms, but for equipment with external antenna terminals (tuner, receiver, etc.) and is intended for [C] or A, specified insulation resistance should be more than 2.2 Mohms (ground terminals, microphone jacks, headphone jacks. line-in-out jacks etc.)

PRECAUTIONS DURING SERVICING

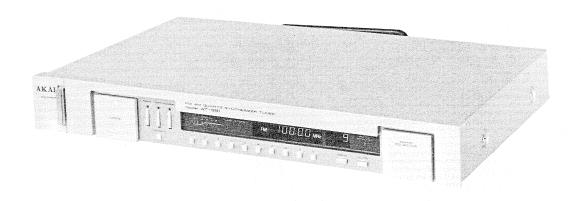
- 1. Parts identified by the \triangle symbol parts are critical for safety.
- Replace only with parts number specified. 2. In addition to safety, other parts and assemblies are specified for conformance with such regulations as those applying to spurious radiation. These must also be replaced only with specified replacements.

Examples: RF converters, tuner units, antenna selector switches, RF cables, noise blocking capacitors, noise blocking filters, etc.

- 3. Use specified internal wiring. Note especially:
 - 1) Wires covered with PVC tubing
 - 2) Double insulated wires
 - 3) High voltage leads
- 4. Use specified insulating materials for hazardous live parts. Note especially:
 - 1) Insulation Tape
 - 2) PVC tubing
 - 3) Spacers (Insulating Barriers)
 - 4) Insulation sheets for transistors
- 5. When replacing AC primary side components (transformers, power cords, noise blocking capacitors, etc.), wrap ends of wires securely about the terminals before soldering.



- 6. Observe that wires do not contact heat producing parts (heatsinks, oxide metal film resistors, fusible resistors, etc.).
- 7. Check that replaced wires do not contact sharp edged or pointed parts.
- 8. Also check areas surrounding repaired locations.
- 9. Use care that foreign objects (screws, solder droplets, etc.) do not remain inside the set.



SECTION 1

SERVICE MANUAL

MODEL AT-S61/L/J

This manual is applicable to both silver and pearl shadow panel models.

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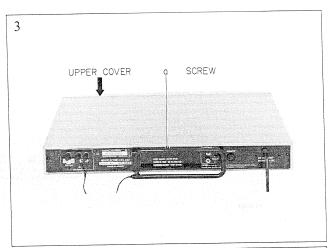
For basic adjustment, measuring methods, and operating principles, refer to GENERAL TECHNICAL MANUAL.

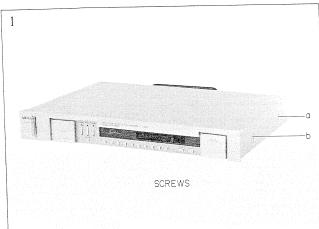
I. SPECIFICATIONS

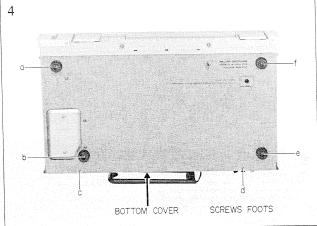
TUNING FREQUENCY RANGE	87.4 to 108.1 MHz (E) 76 to 90 MHz	(cept JAPAN)
SENSITIVITY		
USABLE ($S/N = 30 \text{ dB}, MONO$)	11.2 dBf	
QUIETING (S/N = 50 dB, Mono/Stereo)	16.2/37.2 dBf	
CAPTURE RATIO	1.0 dB	
SELECTIVITY (±400 kHz)	75 dB	
IMAGE REJECTION	95 dB	
IF REJECTION	110 dB	
SPURIOUS REJECTION	100 dB	
AM SUPPRESSION	65 dB	
SUB CARRIER SUPPRESSION	65 dB	
S/N (Mono/Stereo)	78/70 dB	
T.H.D. (±75 kHz DEVIATION, Mono/Stereo)	0.06/0.09%	
STEREO SEPARATION (1 kHz)	55 dB	
FREQUENCY RESPONSE	25 Hz to 15 kHz +0.5	dB, -1 dB
OUTPUT LEVEL		
(FM, 100% MODULATION)	550 mV	
ANTENNA INPUT IMPEDANCE	75 ohms	
AM TUNER SECTION TUNING FREQUENCY RANGE USA AND CANADA	AM (MW for AT-S61L) 530 to 1610 kHz	LW (AT-S61L only)
USA AND CANADA OTHERS	522 to 1611 kHz	137 to 362 kHz
USABLE SENSITIVITY (LOOP)	300 μV/m	800 μV/m
SELECTIVITY	35 dB	40 dB
IMAGE REJECTION	45 dB	45 dB
IF REJECTION	65 dB	65 dB
S/N	40 dB	34 dB
T.H.D.	1.0%	2.0%
1,11.D.		
OUTPUT SECTION		
OUTPUT IMPEDANCE	3.3 k ohms	
OTHERS		
POWER REQUIREMENTS	100V, 50/60 Hz for J	=
	120V, 60 Hz for USA	
	220V, 50 Hz for Euro 240V, 50 Hz for UK	
	,	0/60 Hz switchable for other
	countries	
POWER CONSUMPTION	13W	
DIMENSIONS	440 (W) × 63 (H) × 27	73 (D) mm
	$(17.3 \times 2.5 \times 10.7 \text{ inc})$	
WEIGHT	3.3 kg (7.3 lbs)	

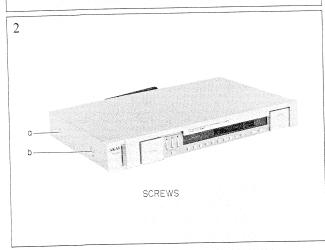
^{*} For improvement purposes, specifications and design are subject to change without notice.

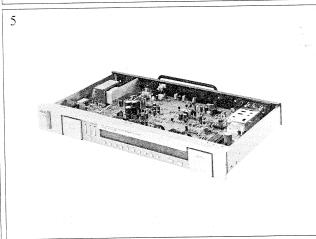
In case of trouble, etc. necessitating dismantling, please dismantle in the order shown in the photographs. Reassemble in reverse order.

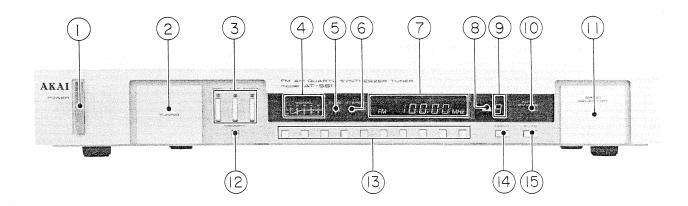












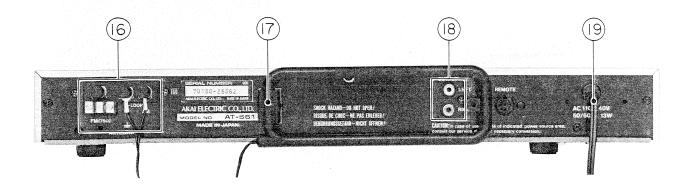
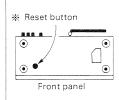


Fig. 1 Controls

- 1. POWER SWITCH
- 2. TUNING BUTTON
- 3. TUNING MODE BUTTONS WITH INDICATORS
- 4. SIGNAL STRENGTH INDICATORS
- 5. TUNE INDICATOR
- 6. STEREO INDICATOR
- 7. DIGITAL FL DISPLAY
- 8. MEMORY (ME) INDICATOR
- 9. PRESET STATION NUMBER DISPLAY
- 10. AUTO (FM MUTE) INDICATOR
- 11. BAND SELECTOR
- 12. MEMORY BUTTON
- 13. PRESET STATION BUTTONS
- 14. MONO BUTTON (CAL TONE BUTTON JAPAN Model)

- 15. FM AUTO BUTTON (MODE SELECTOR JAPAN Model)
- 16. FM, AM AND AM LOOP ANTENNA TERMINALS
- 17. AM LOOP ANTENNA HOLDER
- 18. OUTPUT JACKS
- 19. REMOTE JACK
- 20. POWER CORD



When the power to the AT-S61/L/J is turned on, the station that was tuned in before the power was turned off, will be tuned in again automatically. In case nothing is displayed or an unexpected frequency is displayed, turn the POWER switch on and off. If a proper frequency is still not displayed, depress the Reset button on the bottom of the unit. Do the same in case of malfunction.

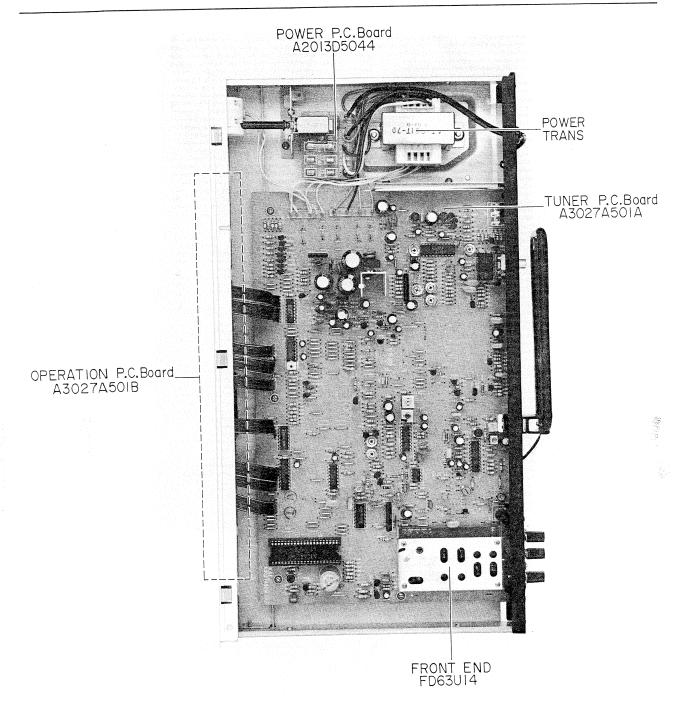
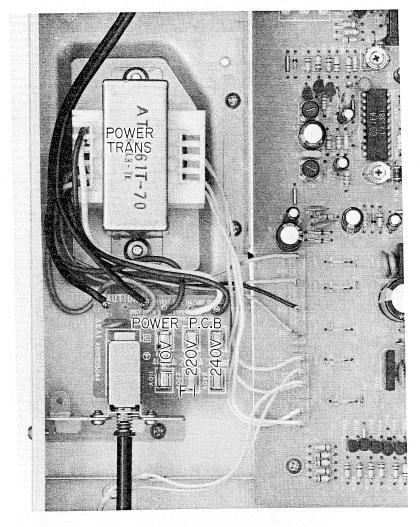


Fig. 2 Top View

V. VOLTAGE CONVERSION



110V AREA : 250V 400mA 220V AREA : 250V 200mA 240V AREA : 250V 200mA

Fig. 3 Voltage Conversion (U Model Only)

Models for Japan, Canada, USA, Europe, UK and Australia are not equipped with this facility.

Each machine is preset at the factory according to destination, but some machines can be set to 110V, 220V or 240V as required. If voltage change is necessary, this can be accomplished as follows.

- 1. Disconnect the power cord.
- 2. Loosen the holding screws and remove the top panel.
- 3. Remove the Line Voltage Fuse and insert the required Line Voltage Fuse onto the proper Fuse Holder, explicitly following the printed instructions.

1. FM SYNTHESIZER BLOCK DIAGRAM

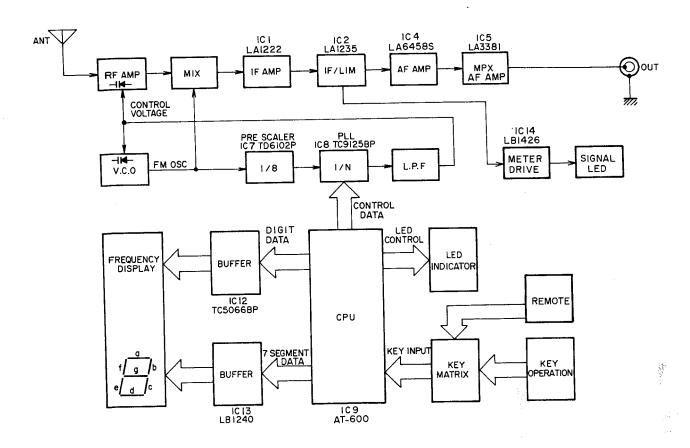


Fig. 4 FM Synthesizer Block Diagram

2. FUNCTION OF AT600 TERMINALS

No.	Terminal Description	Function
1	MUTING	H = Muting OFF L = Muting ON
2	FM	H = FM $L = MW (AM) or LW$
3	MW	H = MW (AM) L = FM or LW
4	LW	H = LW L = FM or MW
5	LED DATA	Light up the LED of MANUAL, AUTO, RANDOM
6	K1 SIGNAL	 (1) EXCEPT JAPAN K1 SIGNAL becomes "H" when MONO KEY is depressed, and K1 SIGNAL becomes "L" when AUTO KEY is depressed. K2 SIGNAL is always "L". (2) JAPAN MODEL K1 SIGNAL is reversed every time MODE KEY is depressed ("H" at
7	K2 SIGNAL	MONO), and K2 SIGNAL is reversed every time CAL TONE KEY is depressed ("H" when CAL TONE is ON). When K2 SIGNAL is "H", CAL is displayed on FREQUENCY DISPLAY, and all tuning modes are released. Therefore, any input other than the inputs by CAL TONE KEY and MODE KEY are not mode.
.9	a	
10	b	a
11	С	- fab
12	d	Frequency Display Segment Data
13	e	
14	f	d
15	g	
16		
8	T6	TIME CONTROL
17	T5	TIMING CONTROL
18	T4 T3	Display Digit Select Key Matrix
19	T2	Led Select
22	T1	Led Select
21	GND	
23	K1	
24	K2	KEY Input
25	K3	InputACTIVE LOW
26	K4	
27	Xin	Connect a OSC Coil.
28	Хоит	
29	CK	CAL TONE Signal (Japan Model only)
30	TEST	
31	RESET	ACTIVE LOW → Reset
32	INT	Interrupt Signal
33	POF	Power OFF manage.
34	PLL LOAD KD	PLL Load Signal Lock SW input. (Refer to KEY Matrix)
35	NC NC	Lock Sw input. (Neter to KE I Wattix)
37	AUTO STOP	L = AUTO STOP
38	D	2 - 110100101
39	C	PLL Frequency Data
40	B	
41	A	
42	VDD	Power terminal +5V

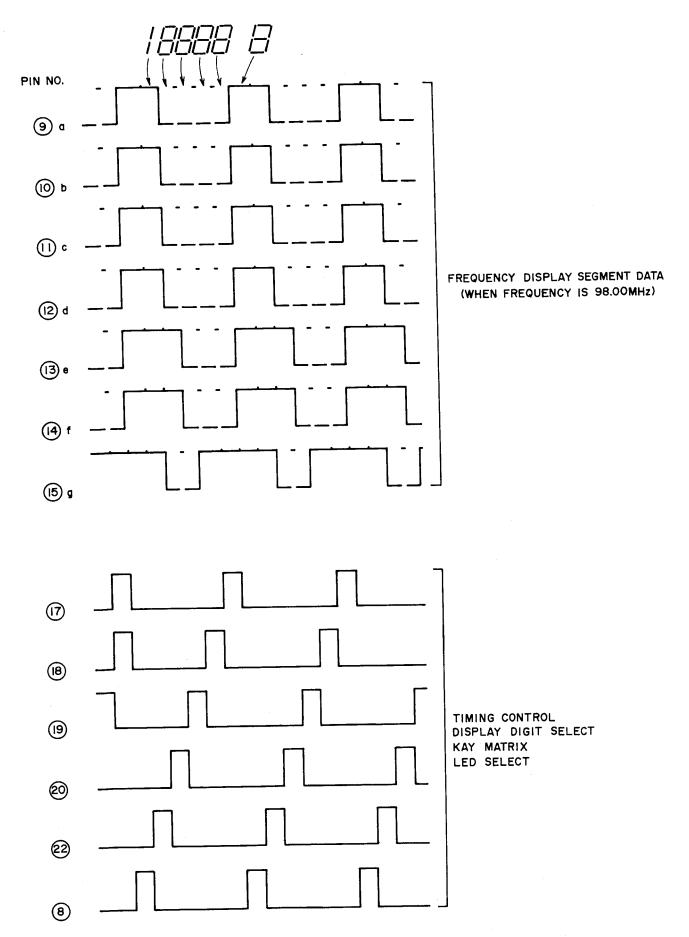


Fig. 5 Waveform of IC9 (AT-600)

3. POWER OFF MANAGE AND RESET CIRCUIT

- 1) If power is ON, TR36 is turned ON. At the same time, C106 is charged through D21 and R221. If power is OFF, TR36 is turned OFF, and IC9 3 becomes "H" by the electric charge of C106 and CPU is set to Hold.
- 2) Memory by Super Capacitor (C106, 0.22F) can be stored for about 20 days.
- 3) If power is ON while Super Capacitor is discharged, malfunction may be caused. In such a case, depress RESET Button (SW1) to reset Mi-Com. Reset operation should be performed while power is ON.

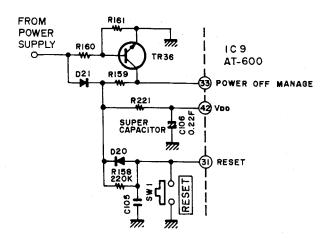
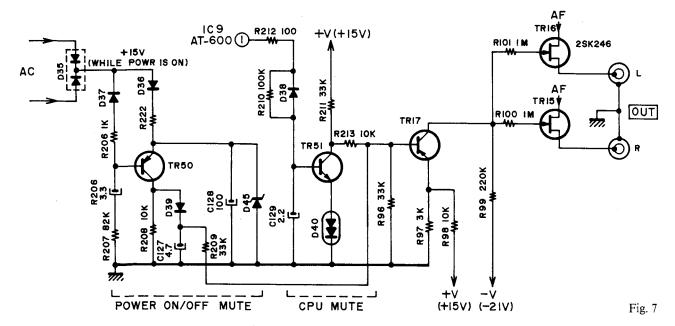


Fig. 6

4. MUTE CIRCUIT OPERATION



AT-S61 has two mutes, one at the power ON/OFF operation, and the other by the signal from CPU IC (AT-600).

- 1) When the power switch is turn ON, the DC voltage rectified by D35 is applied to TR50 through D36 and R222. Since TR50 is kept ON until C126 is charged by base current, + voltage is applied to the base of TR17 through D39 and R209. As the base potential of TR17 becomes higher than that of the emitter, it is turned OFF. As voltage is applied to Gate, TR15 and TR16 are turned OFF and AF signal is not sent to the output terminal. When the charging of C126 is completed, AF signal is output after TR50 → OFF, TR17 → ON and TR15 and TR16 → ON.
- 2) When the power switch is turned OFF, the potential of D35 is lowered faster than other power sources (+15, -21V) since the rectified output of D35 has no smoothing condenser. Moreover, as C126 discharges through R206 and D37, the base potential of TR50 is lowered. On the other hand, the emitter of TR50

- comes to have a higher potential due to the electric charge C128, thus causing TR50 to be turned ON. Afterwards, as in the case where power is ON, TR17 \rightarrow OFF, TR15 and TR16 \rightarrow OFF, and AF signal is not output. This operation ends when the discharging of C128 is completed.
- 3) Terminal ① of IC9 (AT-600) is "H" at the time of normal reception. At time, TR51 is ON → TR17: ON → TR15 and TR16: ON, and AF signal is output from Line Out.
- 4) Terminal ① of IC9 (AT-600) becomes "L" during scanning when Preset Station Key is depressed at the time of Random Tuning and when Band Selector is depressed. At this time, the base bias is not applied to TR51 and it is turned OFF, while the base potential of TR17 becomes higher than that of the emitter to turn TR17 OFF. On the other hand, minus bias is applied to TR15 and TR16 to turn them OFF, and AF signal is not output.

5. STEREO NOISE REDUCTION CIRCUIT

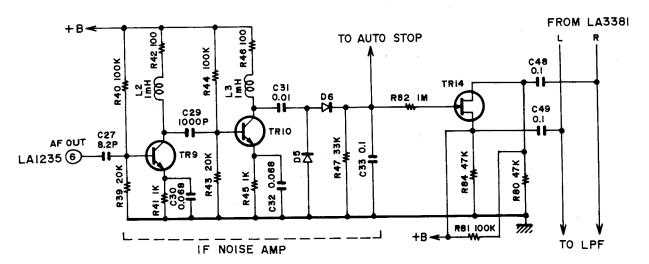


Fig. 8

The noise amplifier is a narrow-band amplifier that amplifies the frequency component of more than 100 kHz, and transforms the output into DC.

To prevent the noise containing a high-band component from increasing at the time of weak electric field, the gate potential of FET is controlled by amplifying the noise and transforming it into DC. Thus, the L-R separation can be deteriorated intentionally to reduce the noise.

6. AUTO STOP SIGNAL DETECTING CIRCUIT

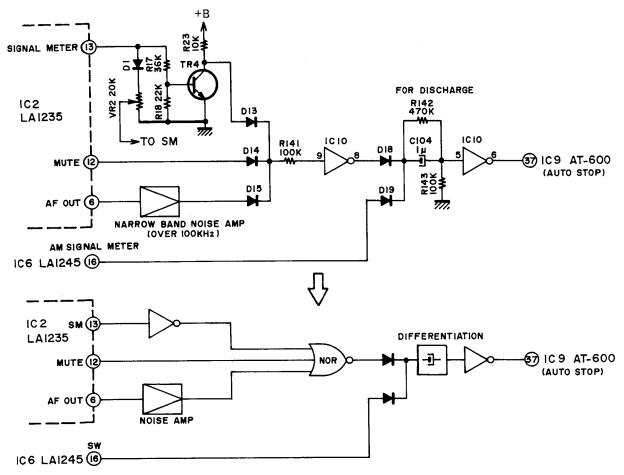


Fig. 9

1) During scanning in FM mode IC2 (3) is "L" and IC2 1 is "H", and the output of Noise Amp. becomes "H" due to the detuning noise. Since NOR Gate consisting of diode and inverter performs "H" output only when all the inputs are "L", the present output is "L". If a broadcast is received, 3 becomes "H", 12 becomes "L" and the output of Noise Amp. becomes "L" since detuning noise disappears. Therefore, all the inputs of NOR Gate becomes "L" and the output becomes "H". "H" output of NOR Gate is differentiated and reversed to make 37 terminal of IC9 (AT-600) "L" and stop scanning. IC6 (6) is always "L" in FM mode. Auto Stop Signal in AM mode uses the signal meter output of IC6 16 . IC6 16 is "H" at the time of broadcast reception and is "L" on other occasions. Since IC2 (3) is always "H" in AM mode, the output of NOR Gate is "L".

7. KEY MATRIX

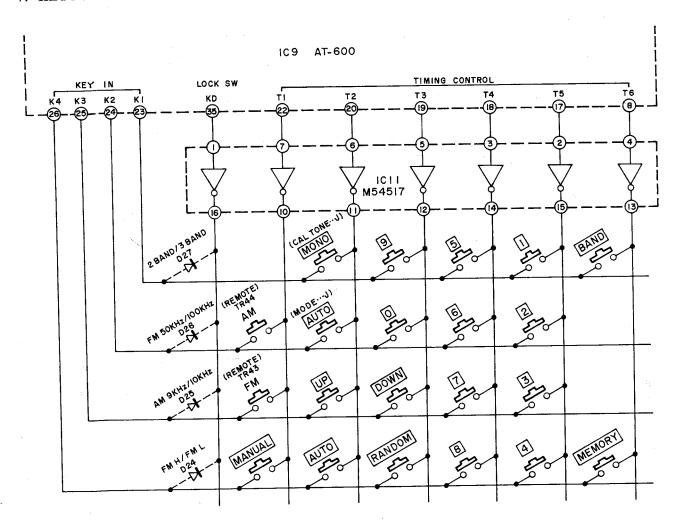


Fig. 10

Destination	AM	FM	Connected Diode
J C, A U, E, S, V	522 ~ 1611 kHz (9 kHz STEP) 530 ~ 1610 kHz (10 kHz STEP) 522 ~ 1611 kHz (9 kHz STEP)	76.00 ~ 90.00 MHz (100 kHz STEP) 87.40 ~ 108.10 MHz (100 kHz STEP) 87.40 ~ 108.10 MHz (50 kHz STEP)	D24 D25, D26 None
L BAND	LW 137 ~ 362 kHz (10 kHz STEP) MW 522 ~ 1611 kHz (9 kHz STEP)	87.40 ~ 108.10 MHz (50 kHz STEP)	D27

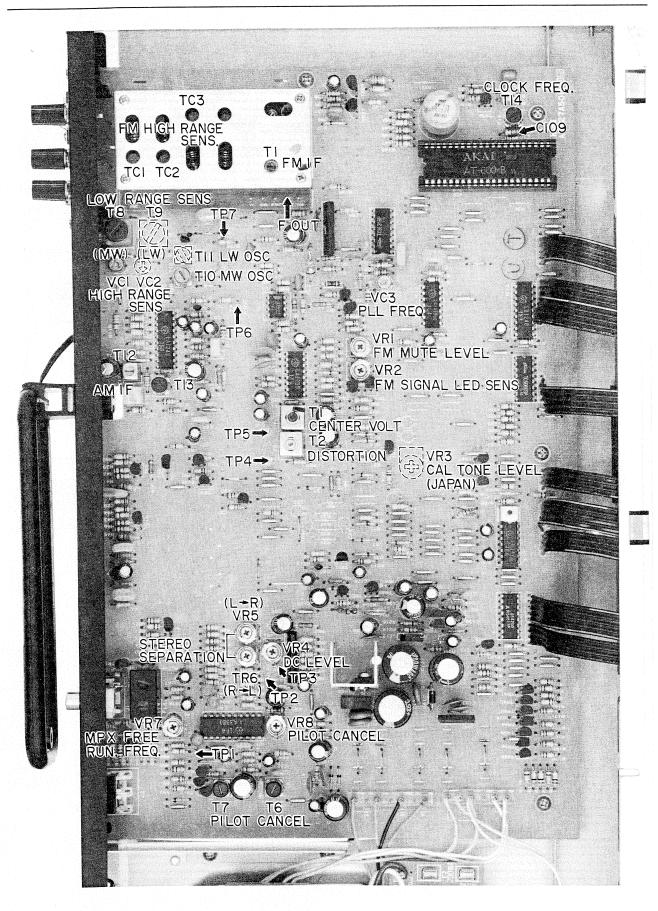


Fig. 11 Tuner P.C Board

1. AM (AT-S61L: MW) SECTION ADJUSTMENT (Refer to Fig. 4)

Unless otherwise specified, use the adjustment points provided on the Tuner P.C Board. (Fig. 4)

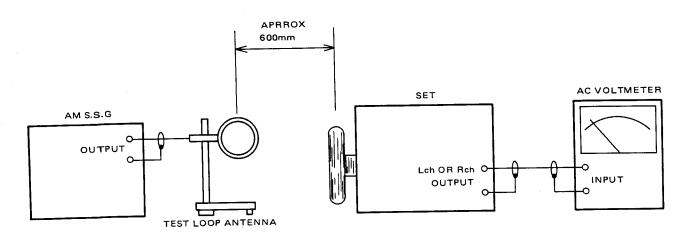


Fig. 12 Instrument Connections for AM Section Adjustment

STEP	ADJUSTMENT ITEM	ADJUSTMENT POINT	RESULT	REMARKS
1	Clock Frequency	T14 (BLK)	420 kHz	Connect a Frequency Counter between C109 (IC9 Pin 28) and GND on the Tuner P.C Board.
2	PLL Frequency	VC3	Digital Display Indicating Frequency +10.7 MHz	BAND switch to FM. Connect a Frequency Counter between F. OUT and GND on the FRONT END.
3	AM (MW) OSC	T10 (RED)	705 kHz	BAND switch to AM (MW). Short TP7 to GND and connect a Frequency Counter between TP6 and GND on the Tuner P.C Board.
4	OP. AMP. DC Level	VR4	4.80V	BAND switch to AM (MW). Connect a DC Voltmeter between TP3 and GND on the Tuner P.C Board.
5	AM IF Coil	T12 (YLW) T13 (BLK)	Maximum Output	1,000 kHz (1,008 kHz), 50 dB, 400 Hz (30%) input.
6	Low Range Sensitivity	Т8	Maximum Output Distortion Factor: Less than 10%	600 kHz (603 kHz), 55 dB, 400 Hz (30%) input.
7	High Range Sensitivity	VC1	Maximum Output Distortion Factor: Less than 10%	1,400 kHz (1,404 kHz), 55 dB, 400 Hz (30%) input.
8				Readjust in Steps 6 and 7.

2. LW SECTION ADJUSTMENT (AT-S61L only)

STEP	ADJUSTMENT ITEM	ADJUSTMENT POINT	RESULT	REMARKS
1	LW OSC	T11	525 kHz	BAND switch to LW. Short TP5 to GND and connect a Frequency Counter between TP6 and GND on the Tuner P.C Board.
2	Low Range Sensitivity	Т9	Maximum Output Distortion Factor: Less than 10%	164 kHz, 50 dB, 400 Hz (30%) input. (Refer to Fig. 5)
3	High Range Sensitivity	VC2	Maximum Output Distortion Factor: Less than 10%	308 kHz, 50 dB, 400 Hz (30%) input. (Refer to Fig. 5)

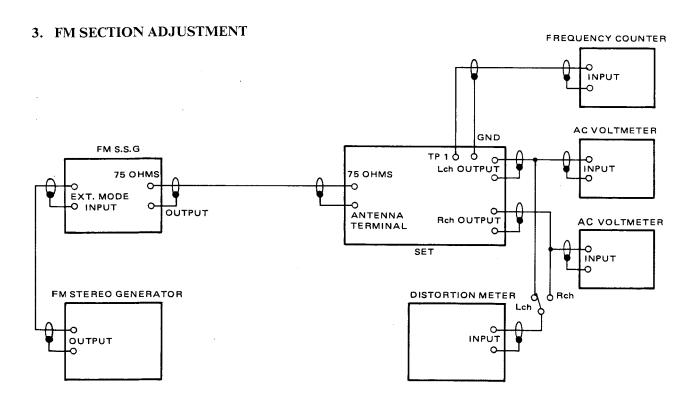


Fig. 13 Instruments Connection for FM Section Adjustment

STEP	ADJUSTMENT ITEM	ADJUSTMENT POINT	RESULT	REMARKS
1	FM IF Coil	T1 (BLK) (Front End)	Maximum Noise Level	BAND switch to FM, and MODE to MONO. Tunes only noise without interference from broadcasting.
2	Center Voltage	Τl	Centered Tuning Meter Indication	Connect a Center Tuning Meter between TP4 and TP5 (See Note 1). Tunes only noise without interference from broadcasting.
3	Distortion Factor	Т2	Distortion Factor: Less than 0.2%	98 MHz (84 MHz), 60 dB, 1 kHz (Mono 100%) input Less than 0.2% in both channels.
4				Readjust in Steps 2 and 3.
5	MPX Free Running Frequency	VR7	76 kHz ±50 Hz	Connect a Frequency Counter between TP1 and GND on the Tuner P.C Board.
6	High Range Sensitivity	TC1, TC2 TC3 (Front End)	Distortion Factor: Less than 3%	MODE switch to MONO. 108 MHz (88 MHz), Less than 6 dB, 1 kHz, (MONO) input.
7	Confirmation of Low Range Sensitivity		Distortion Factor: Less than 3%	88 MHz (76 MHz), Less than 6 dB, 1 kHz, (MONO) input. (See Notes 2, 3)
8	Pilot Signal Cancel	VR8 (T6, T7)	Minimum Output	MODE switch to STEREO. 98 MHz (84 MHz), 60 dB (Stereo), Pilot signal only input.
9	Stereo Separation (Left → Right)	VR5	More than 45 dB	98 MHz (84 MHz), 60 dB, 1 kHz (Stereo 100%) Lch input. Minimum Output of Rch.
10	Stereo Separation (Right → Left)	VR6	More than 45 dB	98 MHz (84 MHz), 60 dB, 1 kHz (Stereo 100%) Rch input. Minimum output of Lch.
11	Confirmation of Stereo Distortion Factor		Distortion Factor: Less than 0.3%	98 MHz (84 MHz), 60 dB, 1 kHz (Stereo 100%) input. If distortion exceeds 0.5%, first check according to Steps 2, 3, 5, 9 and 10, and then readjust according to Step 1.
12	Signal LED Sensitivity	VR2		98 MHz (84 MHz), 40 dB input. Adjust VR2 to a point where 5th LED of SIGNAL LED light up. (See Note 4)
13	Muting Level	VRI	20 dB ±6 dB	MODE switch to STEREO. 98 MHz, 20 dB, 1 kHz (Mono 100%) input. Adjust VR1 until the output signal is reduced to zero. Vary the SSG output by ±6 dB and check muting operation.
14	CAL TONE Level	VR3	275 mV	AT-S61J only.

VIII. CLASSIFICATION OF VARIOUS P.C BOARDS

1. P.C BOARD TITLES AND IDENTIFICATION NUMBERS

1) Model AT-S61

P.C BOARD TITLE	P.C BOARD NUMBER	NOTES
TUNER P.C Board	A3027A501A	U
TUNER P.C Board	A3027A502A	E, V, S
TUNER P.C Board	A3027A503A	C, A
OPERATION P.C Board	A3027A501B	U
OPERATION P.C Board	A3027A502B	E, V, S
OPERATION P.C Board	A3027A503B	C, A
POWER P.C Board	A2013D5044	Ū
POWER P.C Board	A3027D5040	C, A, E, S
POWER P.C Board	A3033D509B	V
FILTER P.C Board	A3033D509A	V

2) Model AT-S61L

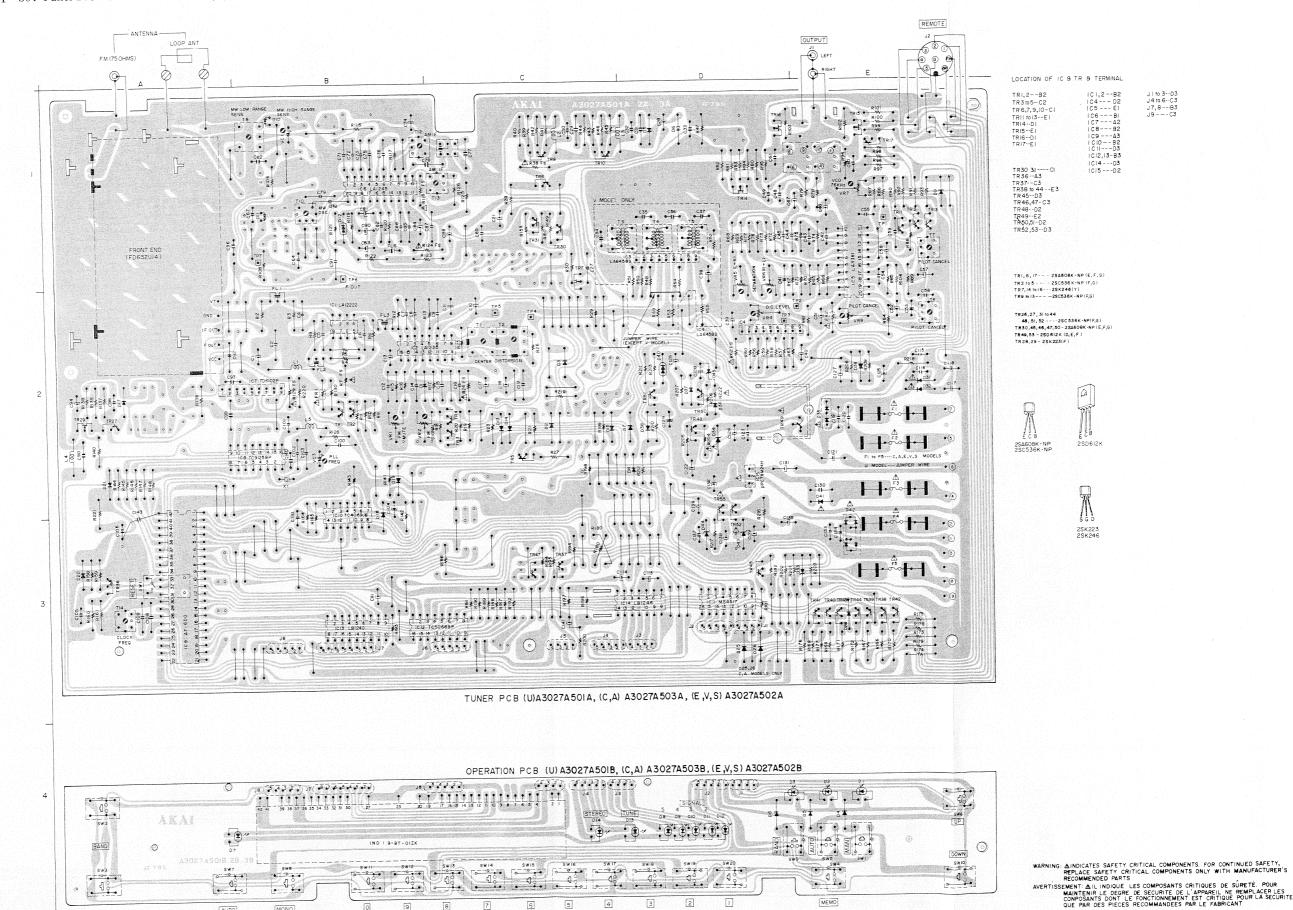
P.C BOARD TITLE	P.C BOARD NUMBER	NOTES
TUNER P.C Board	A3027A502A	
OPERATION P.C Board	A3027D502B	
POWER P.C Board	A3027D5050	

3) Model AT-S61J

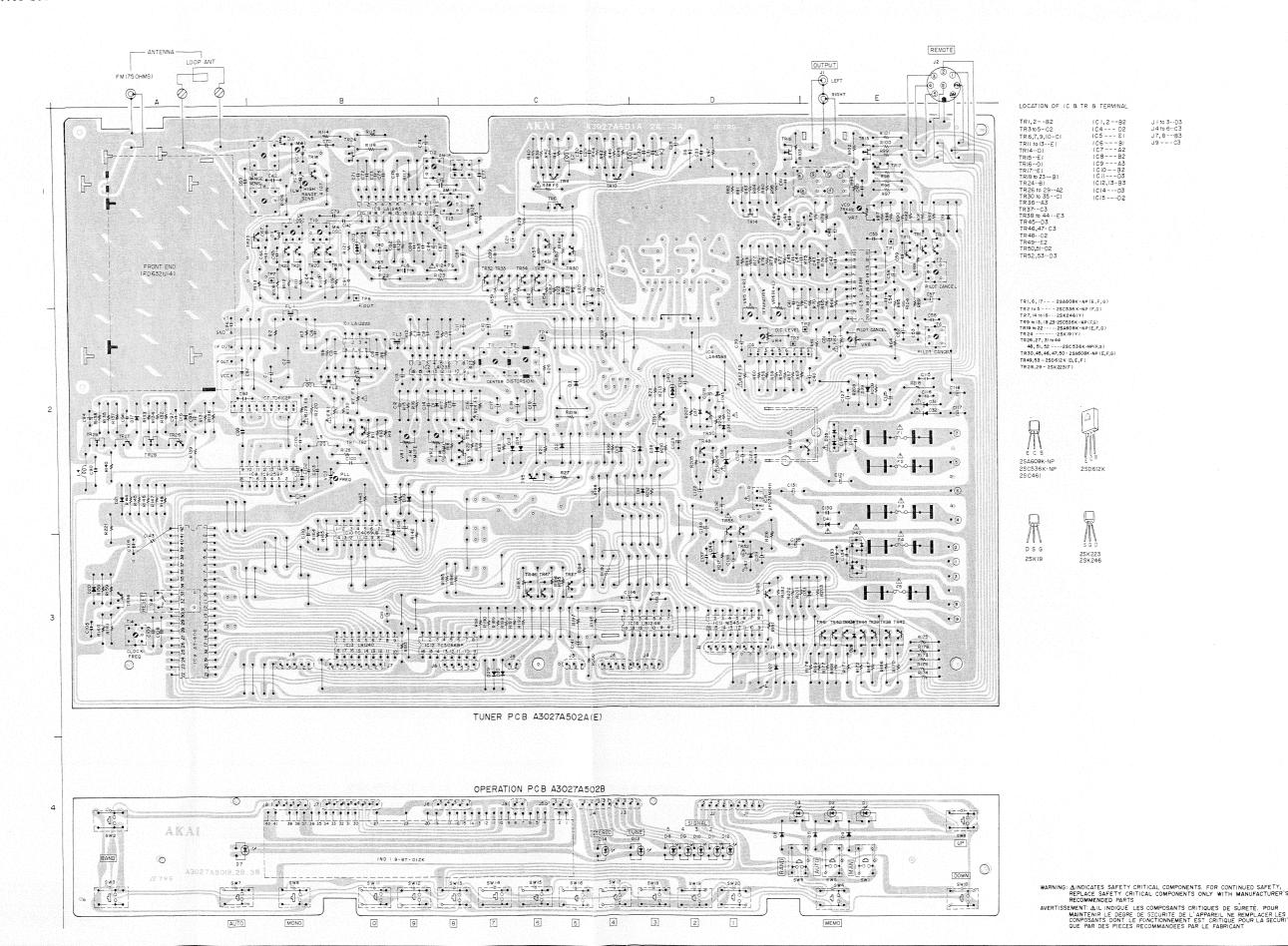
P.C BOARD TITLE	P.C BOARD NUMBER	NOTES
TUNER P.C Board	A3027A501A	
OPERATION P.C Board	A3027A501B	
POWER P.C Board	A3027D5060	

2. COMPO SITION OF VARIOUS P.C BOARDS

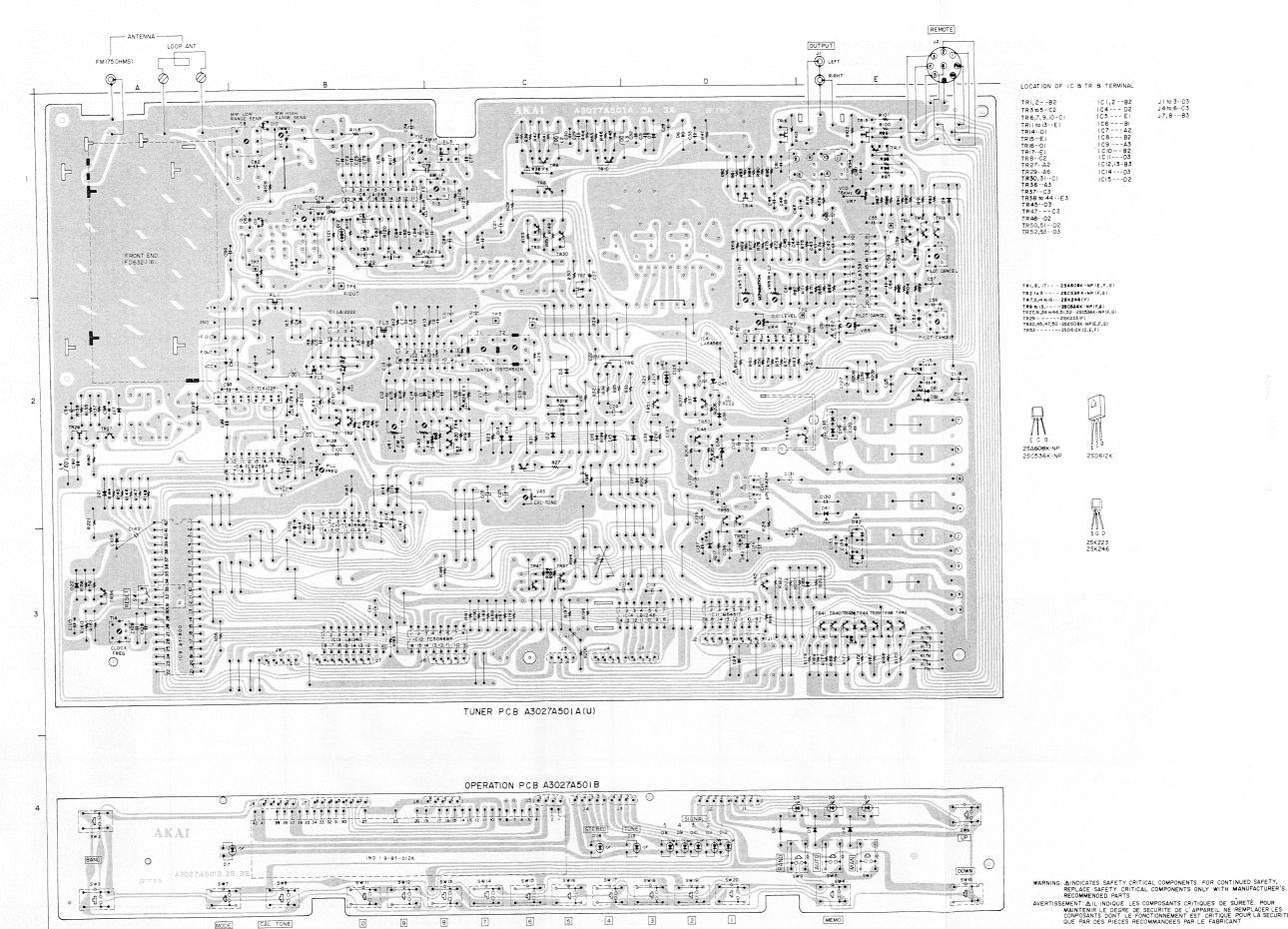
1) Model AT-S61 Tuner P.C Board A3027A501A (U), A3027A502A (E, V, S), A3027A503A (C, A) and Operation P.C Board A3027A501B (U), A3027A502B (E, V, S), A3027A503B (C, A)



2) Model AT-S61L Tuner P.C Board A3027A502A and Operation P.C Board A3027A502B



3) Model AT -S61J Tuner P.C Board A3027A501A and Operation P.C Board A3027A501A



4) Model AT-S61 Power P.C Board A2013D5044 (U)

5) Model AT-S61 Power P.C Board (C, A) A3027D5040

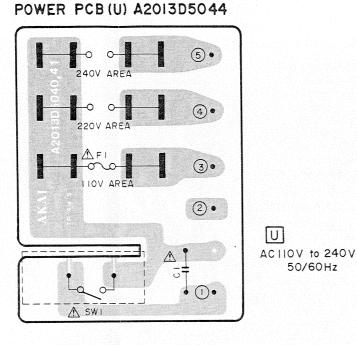
6) Model AT-S61/L Power P.C Board (E, S) A3027D5040

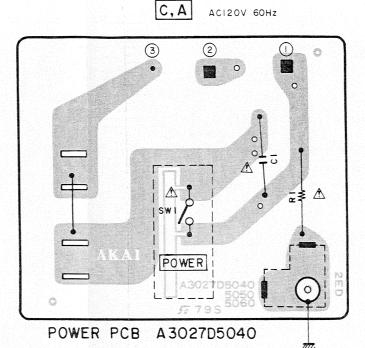
S

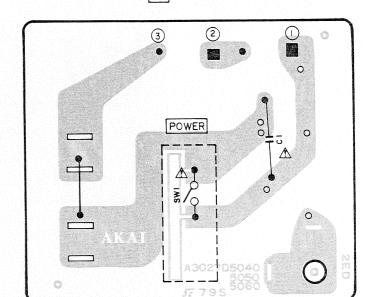
AC 240V 50Hz

AC 220V 50Hz





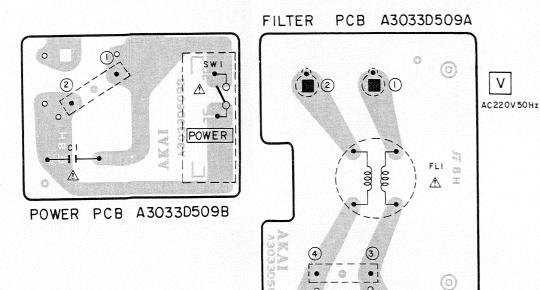




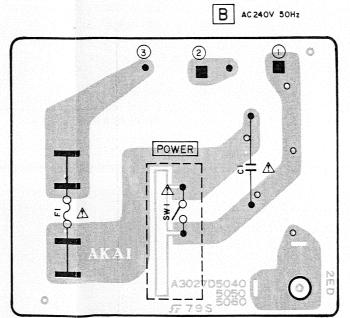
POWER PCB A3027D5040

WARNING: ÀINDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS AVERTISSEMENT: ÂIL INDIOU LES COMPOSANTS CRITIQUES DE SÛRETÉ. POUR MAINTENIR LE DEGRE DE SECURITE DE L'APPAREIL NE REMPLACER LES COMPOSANTS DONT LE FONCTIONNEMENT EST CRITIQUE POUR LA SECURITE QUE PAR DES PIECES RECOMMANDEES PAR LE FABRICANT

7) Model AT-S61 Power P.C Board A3033D509B and Filter P.C Board A3033D509A (V Model)

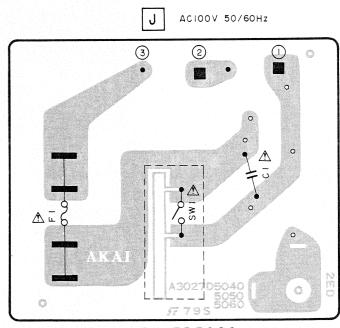


8) Model AT-S61L Power P.C Board A3027D5050



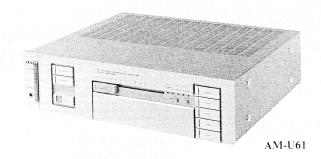
POWER PCB A3027D5050

9) Model AT-S61J Power P.C Board A3027D5060



POWER PCB A3027D5060





SECTION 2

SERVICE MANUAL MODEL AM-U41, AM-U61

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For basic adjustments, measuring methods, and operating principles, refer to GENERAL TECHNICAL MANUAL.

RATED POWER OUTPUT			
(2 CHANNELS DRIVEN)	8 ohms	4 ohms $60W \times 2/0.01\%$	
20 to 20,000 Hz	$55W \times 2/0.007\%$		
1,000 Hz	$60W \times 2/0.007\%$	$65W \times 2/0.01\%$ $70W \times 2$	
1 kHz, 0.7% (DIN)	65W×2	70W × 2	
POWER BANDWIDTH	70177 (0.050/)		
(IHF -3 dB, 8 OHMS)	5 Hz to 70 kHz (0.05%))	
SIGNAL TO NOISE RATIO (IHF-A)	2005 17		
PHONO (MM/MC)	86/67 dB		
TUNER, TAPE, AUX	103 dB		
RESIDUAL NOISE (8 OHMS, IHF-A)	110 μV		
CHANNEL SEPARATION	60 (1 kHz)/60 (40 Hz)/		
DAMPING FACTOR (8 OHMS)	60 (1 kHz)/60 (40 Hz)/	52 (12.5 kHz)	
OUTPUT			
REQUIRED SPEAKER	A, B 4 to 16 ohms		
IMPEDANCE	A + B: 8 to 16 ohms		
INPUT SENSITIVITY/IMPEDANCE			
PHONO MM	2.5 mV/47 kohms		
PHONO MC	= ·	0.25 mV/100 ohms	
TUNER, TAPE, AUX	150 mV/47 kohms		
OUTPUT LEVEL/IMPEDANCE			
TAPE REC	150 mV/1 kohm		
FREQUENCY RESPONSE			
PHONO (RIAA DEVIATION)	$\pm 0.2 \text{ dB}$		
TUNER, AUX, TAPE	5 Hz to 100 kHz (-2 d	B)	
TONE CONTROL			
BASS	$\pm 8 dB (100 Hz)$		
TREBLE	$\pm 8 \text{ dB} (10 \text{ kHz})$		
LOUDNESS CONTROL			
(VOLUME SET AT -30 dB POSITION)	+10 dB (100 Hz)		
	+6 dB (10 kHz)		
SUBSONIC FILTER	-6 dB/Oct at 18 Hz		
PHONO MAX. INPUT (1 kHz)			
MM	250 mV		
MC	25 mV		
POWER REQUIREMENTS	100V, 50/60 Hz for J		
	120V, 60 Hz for U.S.		
	220V, 50 Hz for Euro		
	240V, 50 Hz for UK		
		0/60 Hz switchable for other countries	
POWER CONSUMPTION	250W (U) 150W		
	270W (C) 440W		
DIMENSIONS	$440 \text{ (W)} \times 120 \text{ (H)} \times 3$		
	$(17.3 \times 4.7 \times 15.6 \text{ inc})$	hes)	
WEIGHT	10.4 kg (22.9 lbs)		

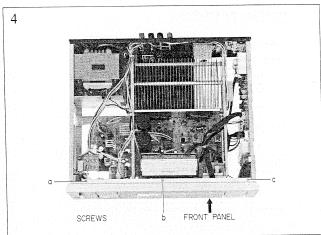
^{*} For improvement purposes, specifications and design are subject to change without notice.

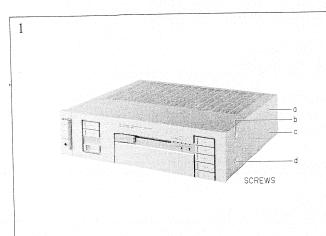
RATED POWER OUTPUT	8 ohms 4 ohms
(2 CHANNELS DRIVEN)	8 ohms 4 ohms 75W × 2/0.007% 85W × 2/0.01%
20 to 20,000 Hz	$85W \times 2/0.007\%$ $85W \times 2/0.01\%$ $85W \times 2/0.01\%$
1,000 Hz	$88W \times 2$ $100W \times 2$
1 kHz, 0.7% (DIN)	88W X Z 100 W X Z
POWER BANDWIDTH	5 11 4 70 111 (0.05%)
(IHF –3 dB, 8 OHMS)	5 Hz to 70 kHz (0.05%)
SIGNAL TO NOISE RATIO (IHF-A)	
PHONO (MM/MC)	86/67 dB
TUNER, TAPE, AUX	103 dB
RESIDUAL NOISE (8 OHMS, IHF-A)	110 μV
CHANNEL SEPARATION	60 (1 kHz)/60 (40 Hz)/50 (10 kHz) dB
DAMPING FACTOR (8 OHMS)	60 (1 kHz)/60 (40 Hz)/52 (12.5 kHz)
OUTPUT	
REQUIRED SPEAKER	A, B 4 to 16 ohms
IMPEDANCE	A + B: 8 to 16 ohms
INPUT SENSITIVITY/IMPEDANCE	
PHONO MM	2.5 mV/33, 47, 100 kohms (switchable)
PHONO MC	0.25 mV/100 ohms
TUNER, AUX, TAPE PLAY	150 mV/47 kohms
OUTPUT LEVEL/IMPEDANCE	
TAPE REC	150 mV/1 kohm
FREQUENCY RESPONSE	
PHONO (RIAA DEVIATION)	$\pm 0.2 \text{ dB}$
TUNER, AUX, TAPE PLAY	5 Hz to 100 kHz (–2 dB)
TONE CONTROL	
BASS	$\pm 8 \mathrm{dB} (100 \mathrm{Hz})$
TREBLE	\pm 8 dB (10 kHz)
LOUDNESS CONTROL	
(VOLUME SET AT -30 dB POSITION)	+10 dB (100 Hz)
·	+6 dB (10 kHz)
SUBSONIC FILTER	-6 dB/Oct at 18 Hz
PHONO MAX. INPUT (1 kHz)	
MM	250 mV
MC	25 mV
POWER REQUIREMENTS	100V, 50/60 Hz for Japan
	120V, 60 Hz for U.S.A. and Canada
	220V, 50 Hz for Europe except UK
	240V, 50 Hz for UK and Australia
	110V/220V/240V, 50/60 Hz switchable for other countries
POWER CONSUMPTION	300W (U) 200W (J) 220W (A)
-	350W (C) 650W (B, S) 550W (E, V)
DIMENSIONS	$440 \text{ (W)} \times 120 \text{ (H)} \times 397 \text{ (D)} \text{ mm}$
AATAAAA TOO OO OO	$(17.3 \times 4.7 \times 15.6 \text{ inches})$
WEIGHT	12 kg (26.4 lbs)

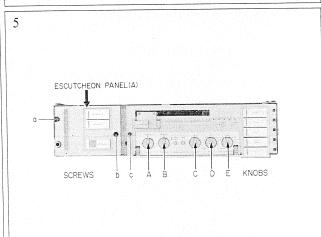
^{*} For improvement purposes, specifications and design are subject to change without notice.

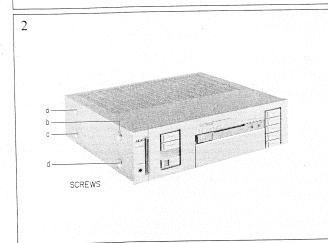
II. DISMANTLING OF UNIT

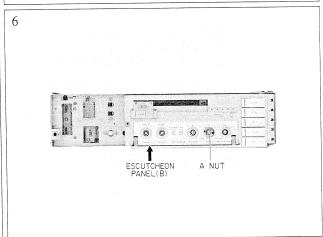
In case of trouble, etc. necessitating dismantling, please dismantle in the order shown in the photographs. Reassemble in reverse order.

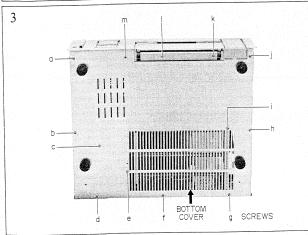


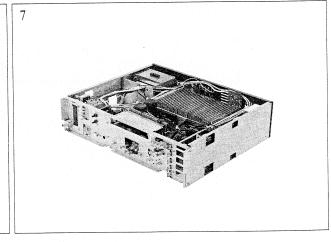


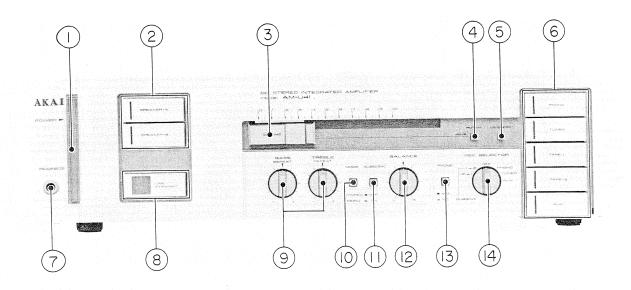












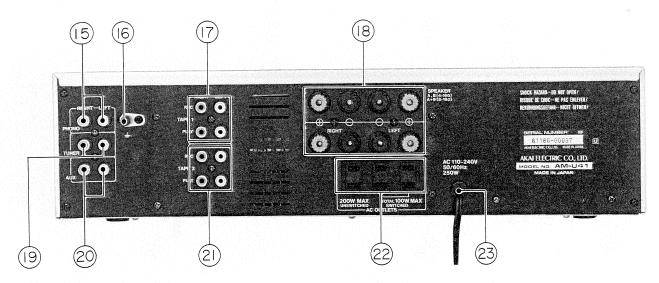
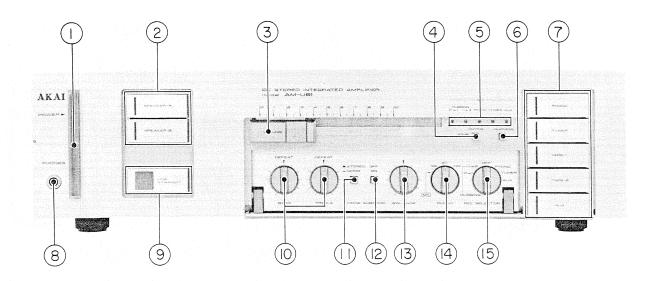


Fig. 1 Controls

- 1. POWER SWITCH
- 2. SPEAKER SWITCHES WITH INDICATORS
- 3. VOLUME CONTROL
- 4. MUTING BUTTON
- 5. LOUDNESS BUTTON
- 6. INPUT SWITCHES WITH INDICATORS
- 7. HEADPHONE JACK (PHONES)
- 8. LINE STRAIGHT SWITCH WITH INDICATOR
- 9. TONE CONTROLS
- 10. MODE SELECTOR
- 11. SUBSONIC SWITCH
- 12. STEREO BALANCE CONTROL (L: LEFT, R: RIGHT)

- 13. PHONO SELECTOR
- 14. RECORDING (REC) SELECTOR
- 15. PHONO JACKS
- 16. GROUND TERMINAL (///)
- 17. TAPE 1 REC/PLAY JACKS
- 18. A AND B SPEAKER SYSTEM TERMINALS
- 19. TUNER JACKS
- 20. AUX JACKS
- 21. TAPE 2 REC/PLAY JACKS
- 22. AC OUTLETS (SOME MODELS ARE NOT EQUIPPED WITH THIS FACILITY.)
- 23. POWER CORD



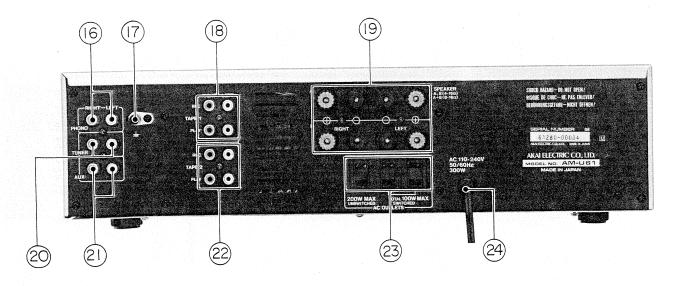


Fig. 2 Controls

- 1. POWER SWITCH
- 2. SPEAKERS SWITCHES WITH INDICATORS
- 3. VOLUME CONTROL
- 4. MUTING BUTTON
- 5. RECORDING (REC) INDICATORS
- 6. LOUDNESS BUTTON
- 7. INPUT SWITCHES WITH INDICATORS
- 8. HEADPHONE JACK (PHONES)
- 9. LINE STRAIGHT SWITCH WITH INDICATOR
- 10. TONE CONTROLS
- 11. MODE SELECTOR
- 12. SUBSONIC SWITCH
- 13. STEREO BALANCE CONTROL (L: LEFT, R: RIGHT)

- 14. PHONO SELECTOR
- 15. RECORDING (REC) SELECTOR
- 16. PHONO JACKS
- 17. GROUND TERMINAL (+)
- 18. TAPE 1 REC/PLAY JACKS
- 19. A AND B SPEAKER SYSTEM TERMINALS
- 20. TUNER JACKS
- 21. AUX JACKS
- 22. TAPE 2 REC/PLAY JACKS
- 23. AC OUTLETS (SOME MODELS ARE NOT EQUIPPED WITH THIS FACILITY.)
- 24. POWER CORD

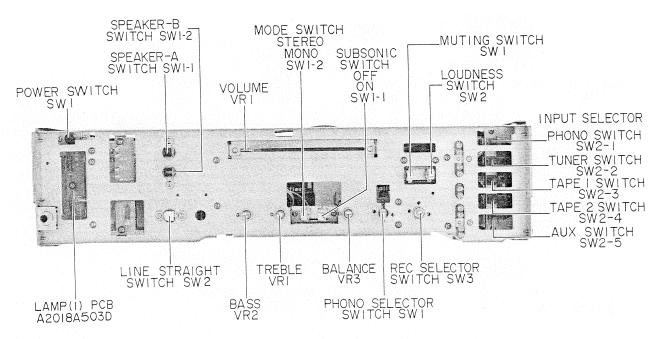


Fig. 3 Front View

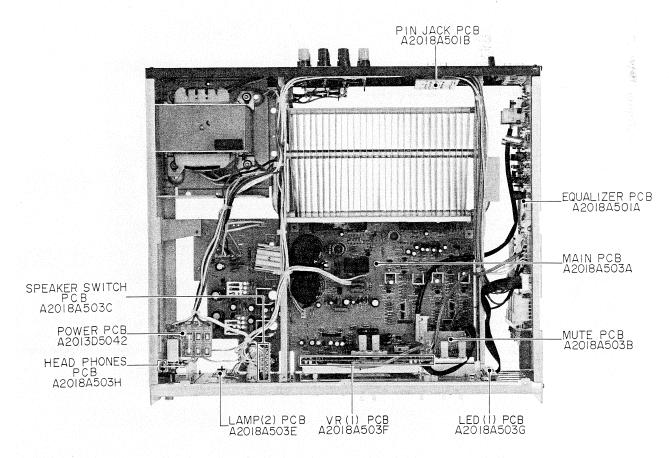


Fig. 4 Top View

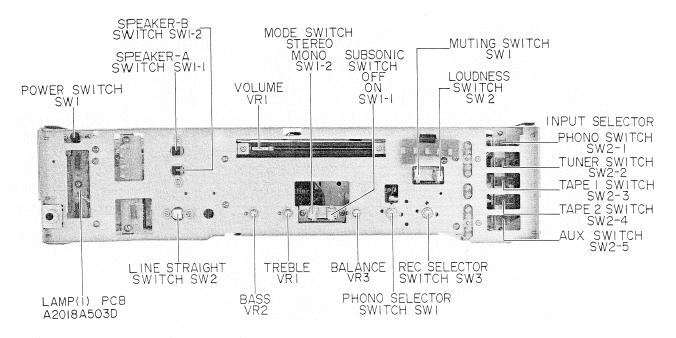


Fig. 5 Front View

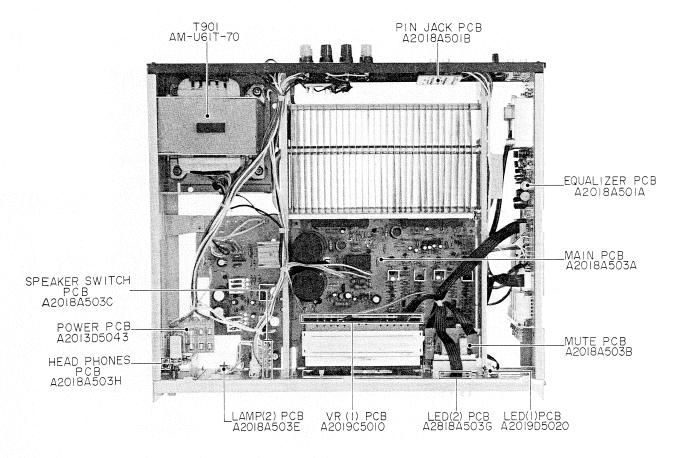


Fig. 6 Top View

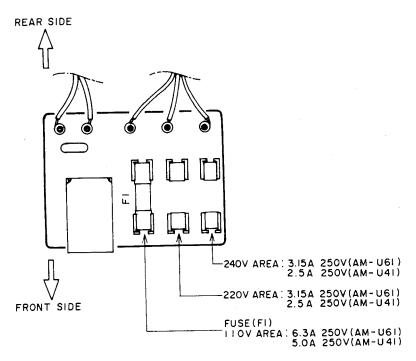


Fig. 7 Voltage Conversion (U Model only)

Models for JAPAN, Canada, U.S.A. Europe, UK and Australia are not equipped with this facility.

Each machine is preset at the factory according to destination, but some machines can be set to 220V or 240V as required.

If voltage change is necessary, this can be accomplished

as follows.

- 1) Disconnect the AC power cord.
- 2) Loosen holding screws and remove upper case.
- 3) Remove exsiting line voltage fuse in proper fuse holder, explicity following instructions printed on the rear panel.

VI. DC OFF-SET VOLTAGE ADJUSTMENT (AM-U61 ONLY)

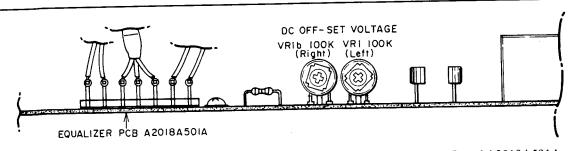


Fig. 8 Equalizer P.C Board A2018A501A

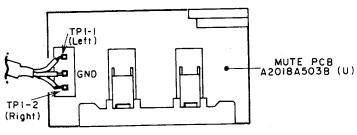


Fig. 9 Mute P.C.B A2018A503B

Set INPUT selector switch to PHONO and PHONO selector switch to MC position. Connect digital voltmeter (or DC voltmeter) to TP1-1 (Left), TP1-2 (Right). Adjust

the VR1 (Left), VR1b (Right) on the Equalizer P.C Board so that the voltmeter reads 0 ± 1 mV.

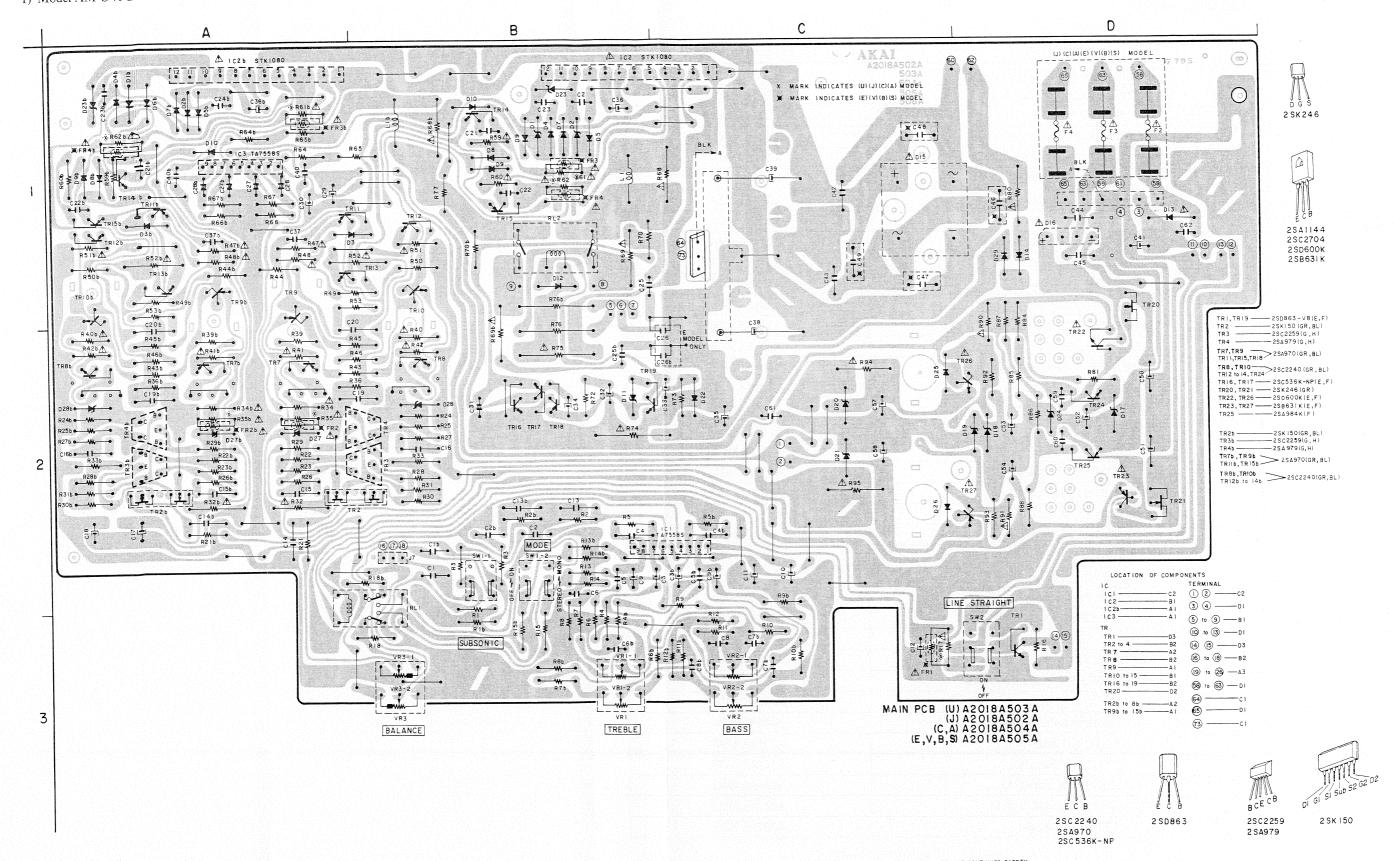
1. P.C BOARD TITLES AND IDENTIFICATION NUMBERS

P.C Board Title	P.C Board Number
POWER P.C Board (U)	A2013D5042
POWER P.C Board (C/A)	A2018D5060
POWER P.C Board (E/V/B/S)	A2018D5072
POWER P.C Board (J)	A2013D5082
EQUALIZER P.C Board	A2018A501A
PIN JACK P.C Board	A2018A501B
MAIN P.C Board (U)	A2018A503A
MAIN P.C Board (J)	A2018A502A
MAIN P.C Board (C/A)	A2018A504A
MAIN P.C Board (E/V/B/S)	A2018A505A
MUTE P.C Board (U)	A2018A503B
MUTE P.C Board (J)	A2018A502B
MUTE P.C Board (C/A)	A2018A504B
MUTE P.C Board (E/V/B/S)	A2018A505B
SPEAKER SW P.C Board (U)	A2018A503C
SPEAKER SW P.C Board (J)	A2018A502C
SPEAKER SW P.C Board (C/A)	A2018A504C
SPEAKER SW P.C Board (E/V/B/S)	A2018A505C
LAMP (1) P.C Board (U)	A2018A503D
LAMP (1) P.C Board (J)	A2018A502D
LAMP (1) P.C Board (C/A)	A2018A504D
LAMP (1) P.C Board (E/V/B/S)	A2018A505D
LAMP (2) P.C Board (U)	A2018A503E
LAMP (2) P.C Board (J)	A2018A502E
LAMP (2) P.C Board (C/A)	A2018A504E
LAMP (2) P.C Board (E/V/B/S)	A2018A505E
VR (1) P.C Board (U)	A2018A503F
VR (1) P.C Board (J)	A2018A502F
VR (1) P.C Board (C/A)	A2018A504F
VR (1) P.C Board (E/V/B/S)	A2018A505F
LED (1) P.C Board (U)	A2018A503G
LED (1) P.C Board (J)	A2018A502G
LED (1) P.C Board (C/A)	A2018A504G
LED (1) P.C Board (E/V/B/S)	A2018A505G
HEADPHONES P.C Board (U)	A2018A503H
HEADPHONES P.C Board (J)	A2018A502H
HEADPHONES P.C Board (C/A)	A2018A504H
HEADPHONES P.C Board (E/V/B/S)	A2018A505H
TERMINAL P.C Board	A2018D5070

P.C Board Title	P.C Board Number
POWER P.C Board (U)	A2013D5043
POWER P.C Board (E/V/B/S)	A2013D5073
POWER P.C Board (J)	A2013D5083
POWER P.C Board (C/A)	A2018D5061
EQUALIZER P.C Board	A2018A501A
PIN JACK P.C Board	A2018A501B
MAIN P.C Board (U)	A2018A503A
MAIN P.C Board (J)	A2018A502A
MAIN P.C Board (C/A)	A2018A504A
MAIN P.C Board (E/V/B/S)	A2018A505A
MUTE P.C Board (U)	A2018A503B
MUTE P.C Board (J)	A2018A502B
MUTE P.C Board (C/A)	A2018A504B
MUTE P.C Board (E/V/B/S)	A2018A505B
SPEAKER SW P.C Board (U)	A2018A503C
SPEAKER SW P.C Board (J)	A2018A502C
SPEAKER SW P.C Board (C/A)	A2018A504C
SPEAKER SW P.C Board (E/V/B/S)	A2018A505C
LAMP (1) P.C Board (U)	A2018A503D
LAMP (1) P.C Board (J)	A2018A502D
LAMP (1) P.C Board (C/A)	A2018A504D
LAMP (1) P.C Board (E/V/B/S)	A2018A505D
LAMP (2) P.C Board (U)	A2018A503E
LAMP (2) P.C Board (J)	A2018A502E
LAMP (2) P.C Board (C/A)	A2018A504E
LAMP (2) P.C Board (E/V/B/S)	A2018A505E
HEADPHONES P.C Board (U)	A2018A503H
HEADPHONES P.C Board (J)	A2018A502H
HEADPHONES P.C Board (C/A)	A2018A504H
HEADPHONES P.C Board (E/V/B/S)	A2018A505H
VR (1) P.C Board	A2019C5010
TERMINAL P.C Board	A2018D5070
LED (1) P.C Board (V)	A2018A503G
LED (1) P.C Board (J)	A2018A502G
LED (1) P.C Board (C/A)	A2018A504G
LED (1) P.C Board (E/V/B/S)	A2018A505G
LED (1) P.C Board	A2019D5020

2. COMPOSITION OF VARIOUS P.C BOARDS

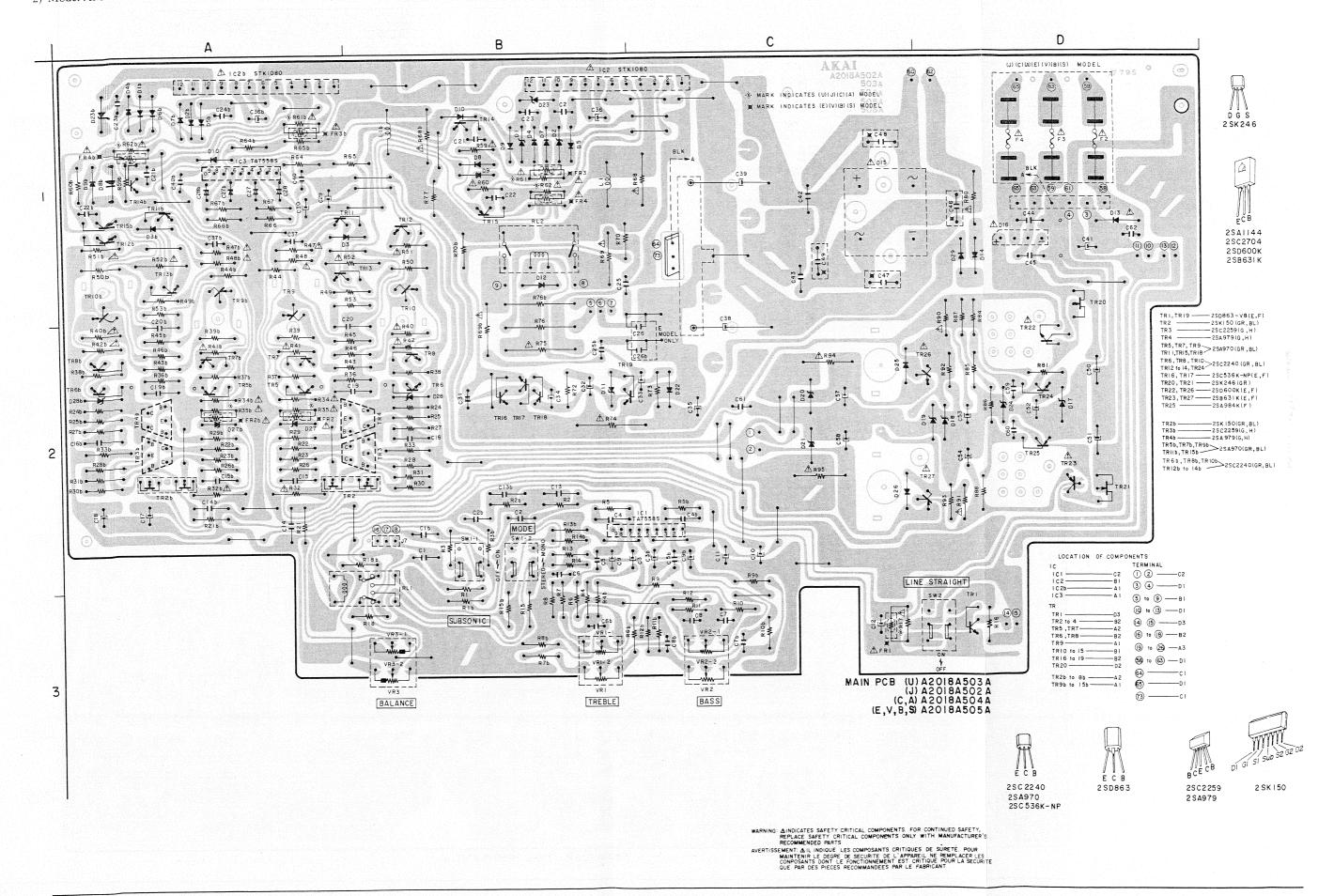
1) Model AM-U41 MAIN P.C Board A2018A503A (U), A2018A502A (J), A2018A504A (C/A), A2018A505A (E/V/B/S)



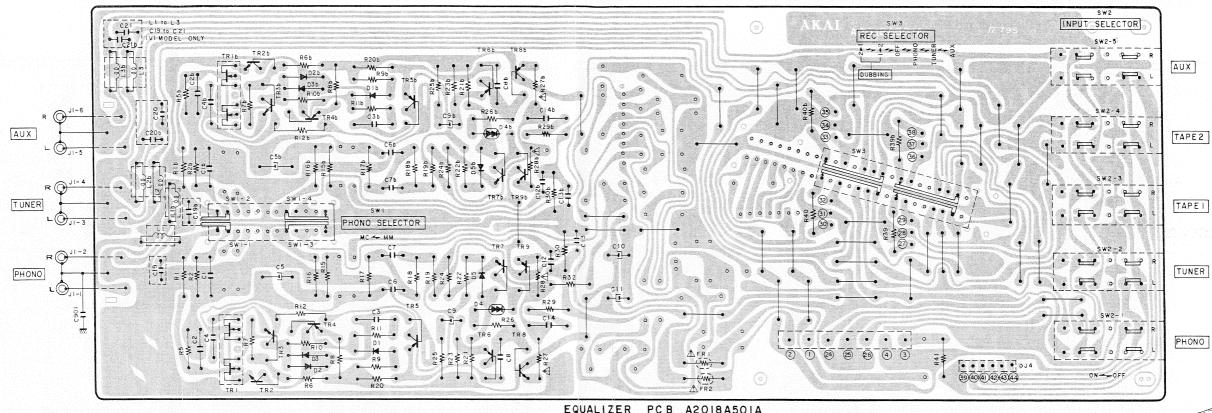
WARNING: &INDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSEMENT: &IL INDIQUE LES COMPOSANTS CRITIQUES DE SÜRETÉ: POUR MANTENNE LE DEGRE DE SECURITE DE L'APPAREIL NE REMPLACER LES CONPOSANTS DONT LE FONCTIONNEMENT EST CAPORICA POUR LA SECURITE QUE PAR DES PIECES RECOMMANDES PAR LE FABRICANT

2) Model AN J-U61 MAIN P.C Board A2018A503A (U), A2018A502A (J), A2018A504A (C/A), A2018A505A (E/V/B/S)



3) Model AM-U41 EQUALIZER P.C Board A2018A501A



EQUALIZER PCB A2018A501A

WARNING: AINDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

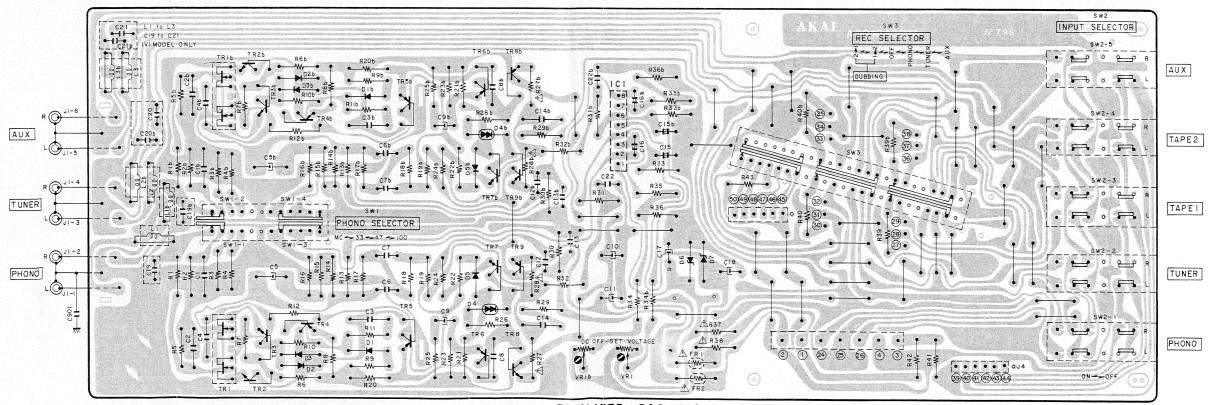
AVERTISSEMENT: ALL INDIQUE LES COMPOSANTS CRITIQUES DE SURRETÉ. POUR COMPOSANTS DONT LE FONCTIONNEMENT EST CRITIQUE POUR LA SECURIT DE L'APPAREIL NE REMPLACER LES CONPOSANTS DONT LE FONCTIONNEMENT EST CRITIQUE POUR LA SECURIT QUE PAR DES PIECES RECOMMANDÉES PAR LE FABRICAL

--- 25K270(GR,BL) TR2,26~ TR3,3b 2SC2240(GR,BL)
TR7,7b TR4 to 6 2 SA970 (GR ,BL) TR8,8b -----2SC2274K(F)
TR9,9b ------2SA984K(F)





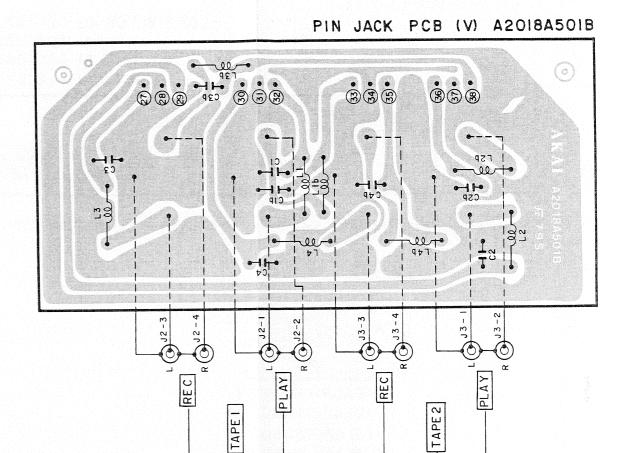
4) Model AM-U61 EQUALIZER P.C Board A2018A501A



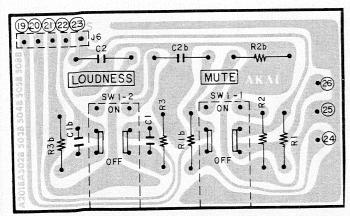
5) Model AM-U41/AM-U61 PIN JACK P.C Board A2018A501B (Except V)

PIN JACK PCB A2018A501B Second Secon

6) Model AM-U41/AM-U61 PIN JACK P.C Board A2018A501B (V only)



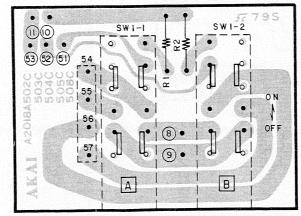
7) Model AM-U41/AM-U61 MUTE P.C Board A2018A503B (U), A2018A502B (J), A2018A504B (C/A), A2018A505B (E/V/B/S)



MUTE PCB (U) A2018A503B (J) A2018A502B (C,A) A2018A504B (E,V,B,S) A2018A505B

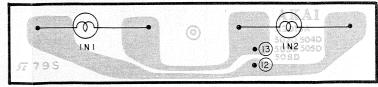
8) Model AM-U41/AM-U61 SPEAKER SW P.C Board A2018A503C (U), A2018A502C (J), A2018A504C (C/A), A2018A505C (E/V/B/S)

SPEAKER SELECTOR

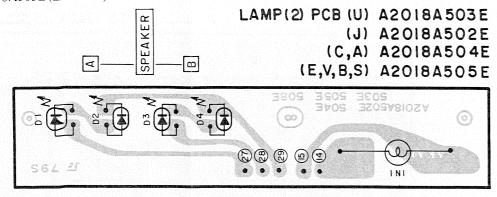


SPEAKER SW PCB (U) A2018A503C (J) A2018A502C (C,A) A2018A504C (E,V,B,S) A2018A505C

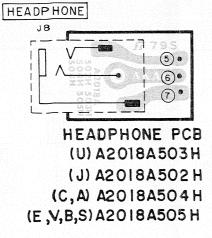
9) Model AM-U41/AM-U61 LAMP (1) P.C Board A2018A503D (U), A2018A502D (J), A2018A504D (C/A), A2018A505D (E/V/B/S)



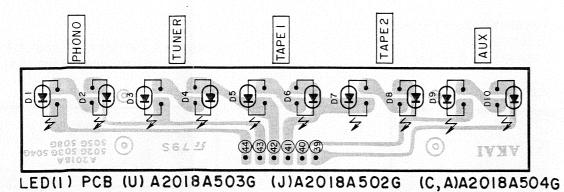
LAMP(I) PCB (U)A2018A503D (J)A2018A502D (C,A)A2018A504D (E,V,B,S)A2018A505D 10) Model AM-U41 /AM-U61 LAMP (2) P.C Board A2018A503E (U), A2018A502E (J), A2018A504E (C/A), A2018A505E (E/V/B/S)



11) Model AM-U41/AM-U61 HEAD PHONE P.C Board A2018A503H (U), A2018A502H (J), A2018A504H (C/A), A2018A505H (E/V/B/S)

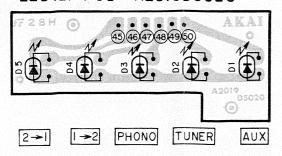


12) Model AM-U41/AM-U61 LED (1) P.C Board A2018A503G (U), A2018A502G (J), A2018A504G (C/A), A2018A505G (E/V/B/S)

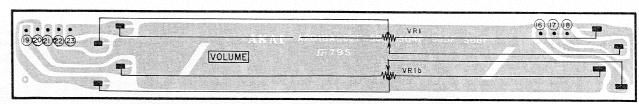


(E,V,B,S)A2018A505G 13) Model AM-U61 LED (2) P.C Board A2019D5020

LED(2) PCB A2019D5020

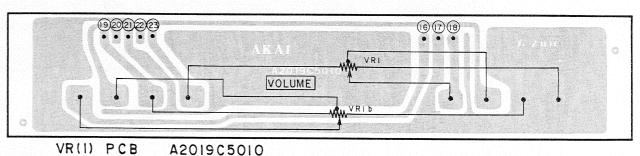


14) Model AM-U41 VR (1) P.C Board A2018A503F (U), A2018A502F (J), A2018A504F (C/A), A2018A505F (E/V/B/S)

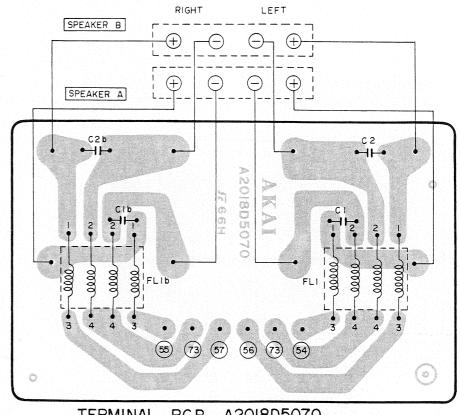


VR (1) PCB (U)A2018A503F (J) A2018A502F (C,A) A2018A504F (E,V,B,S) A 20 18 A 505F

15) Model AM-U61 VR (1) P.C Board A2019C5010



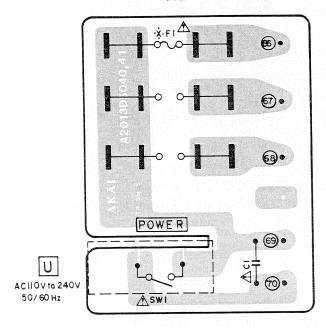
16) Model AM-U41/AM-U61 TERMINAL P.C Board A2018A5070



TERMINAL PCB A2018D5070

17) Model AM-U41/AM-U61 POWER P.C Board A2013D5042/A2013D5043 (U)

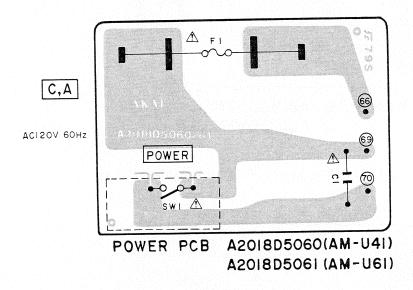
POWER PCB A2013D5042(AM-U41) A2013D5043(AM-U61)



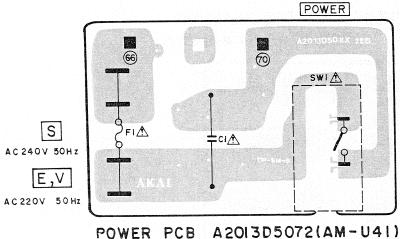
WARNING: AINDICATES SAFETY CRITICAL COMPONENTS, FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSEMENT ALL INDIQUE LES COMPOSANTS CRITIQUES DE SÚRETÉ. POUR MAINTENIR LE DEGRE DE SECURITÉ DE L'APPARELL NE REMPLACER LES COMPOSANTS DONT LE FONCTIONNEMENT EST CRITIQUE POUR LA SECURIT QUE PAR DES PIECES RECOMMANDEES PAR LE FABRICANT

18) Model AM-U41/AM-U61 POWER P.C Board A2018D5060/A2018D5061 (C/A)

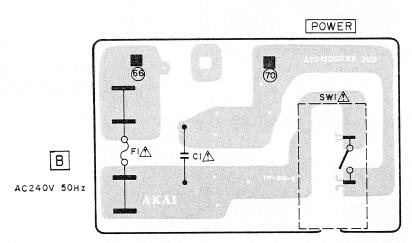


19) Model AM-U41/AM-U61 POWER P.C Board A2013D5072/A2013D5073 (E/V/S)



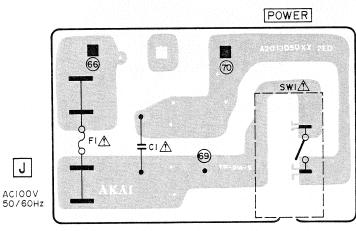
POWER PCB A2013D5072(AM-U41) A2013D5073(AM-U61)

20) Model AM-U41/AM-U61 POWER P.C Board A2013D5072/A2013D5073 (B)



POWER PCB A2013D5072 (AM-U41) A2013D5073 (AM-U61)

21) Model AM-U41/AM-U61 POWER P.C Board A2013D5082/A2013D5083 (J)



POWER PCB A2013D5082(AM-U41) A2013D5083(AM-U61)

WARNING: ANDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY, RECOMMENDED PARTS

AVERTISSEMENT: ALL INDIQUE LES COMPOSANTS CRITIQUES DE SUPETÉ; POUR MAINTERNE LE DEGRÉ DE SECURITE DE L'APPAREIL NE REMPLACET LES COMPOSANTS DONT LE TOWNCHONDENTE SET CRITIQUES OU FAURLES COMPOSANTS DONT LE TOWNCHONDENTE SET CRITIQUE OUR LA SECURITE DE L'APPAREIL NE REMPLACET LES COMPOSANTS DONT LE TOWNCHONDENTE SET CRITIQUE OUR LA SECURITE DE L'APPAREIL NE REMPLACET LES COMPOSANTS DONT LE TOWNCHONDENTE SET CRITIQUE OUR LA SECURITE DE L'APPAREIL NE REMPLACET LES DESTRUCTIONS DE L'APPAREIL NE REMPLACET L'APPAREIL N

SECTION 3

PARTS LIST

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Please refer to COMMON LIST FOR SERVICE PARTS for Resistor and Capacitor not listed in this parts list.

ATTENTION

- 1. When placing an order for parts, be sure to list the parts no. model no., and description. There are instances in which if any of this information is omitted, parts cannot be shipped or the wrong parts will be delivered.
- 2. Please be careful not to make a mistake in the parts no. If the parts no. is in error, a part different from the one ordered may be delivered.
- 3. Because parts number and parts unit supply in the Preliminary Parts List may be partially changed, please use this parts list for all future reference.

HOW TO USE THIS PARTS LIST

- 1. This Parts List shows the parts that are considered necessary for repairs. Other parts, such as resistors and capacitors, are shown in the "Common List for Service Parts". Select and order such parts from the "Common List for Service Parts".
- 2. The Recommended Spare Parts shows those parts in the Parts List which are considered particularly important for service.
- 3. Parts not shown in the Parts List and "Common List for Service Parts" will not be supplied in principle.
- 4. How to read list
 - a) Mechanism Block

b) P.C Board Block

2. HEAD BASE BLOCK

6. SYS. CON. P.C BOARD BLOCK

REF. NO.	PARTS NO.	DESCRIPTION	REF. NO.	PARTS NO.	DESCRIPTION
2-1x	BH-T2023A320A	HEAD BASE BLOCK GX-F66R	6-1	BA-T2034A070A	A PC SYS CON BLK GX-F44R
2-2	HP-H2206A010A	HEAD R/P PR4-8FU C	6-IC1	EI-324536	IC HD14049BP
2-3	ZS-477876	PAN20×03STL CMT	6-IC2	EI-336801	IC MB8841-564M
2-4	ZS-536488	BID20×08STL CMT	6-IC3	EI-331661	IC SN7405N
2-5	ZG-402895	CS ANGLE ADJUST SPRING	6-IC4	EI-336725	IC M54527P
ĪĪ	\ T		6-TR1to4	ET-200985	TR 2SC2603 F,G
1	SP (Serv	rice Parts) Classification	6-TR5to28	ET-554657	TR 2SA733A P,Q
		경기 경기 등에 가는 사람들이 되는 것이 되었다. 그는 사람들이 가는 것이 없는 것이 없는 것이다.	6-D1	ED-318292	D SILICON H 1S2473T-77 T26
1 \	└──A small	"x" indicates the inability to	6-D2to4	ED-308952	D GERMA V 1K34A-LR F07
1 \	show th	at particular part in the Photo or	6-D5to10	ED-318292	D SILICON H 1S2473T-77 T26
\	\ Illustrat		6-X1	EI-318384	OSC X'TAL NC-18C
	\		Ŧ Ŧ		3.579545MHZ
	This number corresponds with the individual parts index number in that figure This number corresponds with the Figure — Number			——This refe	ce Parts) Classification rence numbers corresponds abol numbers of Schematic s.

5. Both the kind of part and installation position can be determined by the Parts Number. To determine where a parts number is listed, utilize Parts Index at end of Parts List. It is necessary first of all to find the Parts Number. This can be accomplished by using the Reference Number listed at right of parts number in the Parts Index.

WARNING

 \triangle INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS.

AVERTISSEMENT

⚠ IL INDIQUE LES COMPOSANTS CRITIQUES DE SURETE. POUR MAINTENIR LE DEGRE DE SECURITE DE L'APPAREIL NE REMPLACER LES COMPOSANTS DONT LE FONCTIONNEMENT EST CRITIQUE POUR LA SECURITE QUE PAR DES PIECES RECOMMANDEES PAR LE FABRICANT.

RECOMMENDED SPARE PARTS LIST

58

EO-337415

Because, if the parts listed below are on hand, almost any repair can be accomplished, we suggest that you stock these Recommended Spare Parts Items.

these rec	COMMITTEE - F				
REF. NO.	PARTS NO.	DESCRIPTION	REF. NO.	PARTS NO.	DESCRIPTION
		A	50	EO-337572	COIL VARI 2 25-2474 (V)
1	BT-337978	↑ TRANS POWER AT-S61T-11 (J)	59		COIL VARI 2 25-2475 (V)
2	BT-337971	⚠ TRANS POWER AT-S61T-30	60	EO-337573	COIL VARI 2 25-2476 (V)
_		(C, A)	61	EO-337574	
3	BT-337973	⚠ TRANS POWER AT-S61T-40 (B)	62	EO-337598	COIL VARI 2 25A-1353-01
3		(E, V)	63	EO-337599	COIL VARI 2 25A-1354-03 (L)
4	BT-337974	⚠ TRANS POWER AT-S61-T-50 (B) (B, S)	64	ER-338408	\triangle R FUSE ERD2FC F10 1/4W 91R0G (V)
	Dec 225050	⚠ TRANS POWER AT-S61T-70 (U)	65	ER-318248	⚠ R FUSE ERD2FC 1/4W 47R0G
5	BT-337970	C S-FIX H CTZ51C 3.0-10	66	ER-337327	FILTER CE BFU459C4N 0.459MHz
6	EC-336865	(EXCEPT L)			(EXCEPT C, A) FILTER CE BFU460C4N 0.46MHz
7	EC-337602	C S-FIX H CTZ51E127 4.5-20	67	ER-337328	(C, A)
8	EC-337603	C S-FIX H CTZ51F132 5.5-30			FILTER CE SFE10.7MPKA
9	ED-562386	D GERMA H 1S188AM	68	ER-337989	10.7MHz
10	ED-337413	D LED SLP-135B RED			
11	ED-337414	D LED SLP-235B GRN	69	ER-337325	FILTER CE SFZ459G3L 0.459MHz
	ED-223547	D SILICON DS131A 100/1.8A			(EXCEPT C, A)
12	ED336805	D SILICON DS135D-KB1 200/1.0A	70	ER-337326	FILTER CE SFZ460G3L 0.46MHz
13		D SILICON H DS448			(C, A)
14	ED301911	D SILICON H DS448 FA5 F10	71	ER-341654	FILTER LC LP 42W-1001
15	ED-200469	D SILICON 1B4B41 100/1.0A	72	ES-328788	
16	ED-322238	D VARACTOR SVC333(A)			(C, A)
17	ED-337605	D VARACTOR SVC333(A) DOUBLE	73	ES-328787	⚠ SW PUSH ESB-90149R 01-1 J (J)
			74	ES-336909	⚠ SW PUSH ESB-90259S 01-1 C
18	ED323057	D VARISTER MV12	/4	E3-330707	(U, E, B, S)
19	ED-323216	D ZENER H 05Z15 Z	7.5	ES-336760	SW TACT EVQ-QJR02K
20	ED337606	D ZENER H 05Z6.2 Y	75		SW TACT KHC10901
21	ED-300257	D ZENER H 05Z6.8 X	76	ES-328414	TR FET 2SK19 Y
22	EE-337571	FRONT END FD632J16 76-90MHz	77	ET-323232	TR FET 2SK223 F
		(J)	78	ET-336864	
23	EE-337570	FRONT END FD632U14	79	ET-337604	TR FET 2SK246 Y
43		87-108MHz (EXCEPT J)	80	ET-322778	TR 2SA608K-NP E, F, G
24	EF-322975	♠ FUSE EAWK T 250V 0.16A (F3)	81	ET-316643	TR 2SC536K-NP F, G
24	D1 3227	(E, B, S, V)	82	ET-307193	TR 2SD612K D, E, F
25	EF-322975	⚠ FUSE EAWK T 250V 0.16A (F5)	83	EV-337995	R S-FIX H RVF8P01 3P 103
25	E1 -322773	(E, B, S, V)	84	EV-337996	R S-FIX H RVF8P01 3P 104
	TT 200500	⚠ FUSE EAWK T 250V 0.20A (F4)	85	EV-337993	R S-FIX H RVF8P01 3P 203
26	EF-300588	(E, B, S, V)	86	EV-338588	R S-FIX H RVF8P01 3P 503
27	EF-300599	⚠ FUSE FST3100 T 250V 0.40A			
		(F1, 2) (E, B, S, V)			
28	EF-308933	⚠ FUSE TSC A 250V 0.20A (F1) (U)			
29	EF-309389	♠ FUSE TSC A 250V 0.40A (F1) (U)			
30	EF-327103	♠ FUSE TSC A 250V 0.50A (F1) (J)			
31	EF-315334	▲ FUSE TSC 125V 0.25A (F5) (C, A)			
	EF-306088	♠ FUSE TSC 125V 0.31A (F4) (C, A)			
32	EF-309390	⚠ FUSE TSC 125V 0.50A (F1, 2, 3)			
33	EI -307370	(C, A)			
34	EI-337600	IC AT600			
35	EI-337363	IC LA1222			
36	EI-337417	IC LA1235			
37	EI-202218	IC LA1245			
38	E1-332206	IC LA3381			
39	EI-336761	IC LA6458S			
40	EI-336794	IC LB1240			
41	EI-337365	IC LB1426			
42	EI-338171	IC LC4069UB			
	EI-332287	IC M54517P			
43	EI-315379	IC TC5066BP			
44	EI-336717	IC TC9125BP			
45		IC TD6102P			
46	EI-315381	IC UPC78M24H			
47	EI-338675	OSC X'TAL HC-18/U 9MHz			
48	EI-327074	PL CORD 9.0V 40MA 140/140			
49	EL-337975	IND FL 9-BT-01ZK CHARACTER			
50	EM-337426				
51	EO-336878	COIL DET 2 78-1049			
52	EO-336879	COIL DET 2 78-1050			
53	EO-337607	COIL IFT 08A-04 460KHz			
54	EO-202216	COIL IFT 7MC-6733C 460KHz			
55	EO-336833	COIL IFT 7MC-7736Z 460KHz			
56	EO-202215	COIL OSC 2 7NR6721Y 100μH			
57	EO-307786	COIL OSC 2 7NR-6722Y 580μH (L)			
51	EO 337415	COIL VARI 1 126×GS-6323Z 19KHz			

COIL VARI 1 126×GS-6323Z 19KHz

1. TUNER P.C BOARD BLOCK

1. TOWERT OF BOILD BEGON					
REF. NO.	PARTS NO.	DESCRIPTION	REF. NO.	PARTS NO.	DESCRIPTION
1 1	BA-A3027 A030A	PC TUNER BLK AT-S61 (U)	1-D31, 32	ED-301911	⚠ D SILICON H DS448
1-1	BA-A3027 A030A BA-A3027 A030B	PC TUNER BLK AT-S61 (C) (C, A)	1-D33, 34	ED-323216	△ D ZENER H 05Z15 Z
1-2	BA-A3027A030C	PC TUNER BLK AT-S61 (E) (E, S)	1-D35, 54	ED-223547	⚠ D SILICON DS131A 100/1.8A
1-3		PC TUNER BLK AT-S61 (V)	1-D36	ED-223347 ED-200469	D SILICON H DS448 FA5 F10
1-4	BA-A3027A030D				
1-5	BA-A3027A030E	PC TUNER BLK AT-S61L	1-D37 to 39	ED-301911	D SILICON H DS448
1-6	BA-A3027 A030F	PC TUNER BLK AT-S61-J	1-D40	ED-323057	D VARISTER MV12
			1-D41	ED-336805	△ D SILICON DS135D-KB1
	TUNER P.C BO				200/1.0A
1-7	EE-337570	FRONT END FD632U14	1-D42	ED-322238	△ D SILICON 1B4B41 100/1.0A
		87-108MHz (EXCEPT J)	1-D43	ED-300257	D ZENER H 05Z6.8 X
1-8	EE-337571	FRONT END FD632J16	1-D44	ED-337606	D ZENER H 05Z6.2 Y
		76-90MHz (J)	1-D45	ED-323216	D ZENER H 05Z15 Z
1-IC1	EI-337363	IC LA1222	1-J1	EJ-337424	PIN J AJC-034-AAB P 2P
1-IC2	EI-337417	IC LA1235	1-J2	EJ-324276	DIN J TCS4680-01-111 P 8P
1-IC3	EI-336761	IC LA6458S (V)	1-SW1	ES-328414	SW TACT KHC10901
1-IC4	EI-336761	IC LA6458S	1-VR1	EV-338588	R S-FIX H RVF8P01 3P 503
1-IC5	EI-332206	IC LA3381	1-VR2	EV-337993	R S-FIX H RVF8P01 3P 203
1-IC6	EI-202218	IC LA1245	1-VR3	EV-337995	R S-FIX H RVF8P01 3P 103 (J)
1-IC7	EI-315381	IC TD6102P	1-VR4 to 6	EV-337993	R S-FIX H RVF8P01 3P 203
1-IC8	EI-336717	IC TC9125BP	1-VR7	EV-337995	R S-FIX H RVF8P01 3P 103
1-IC9	EI-337600	IC AT600	1-VR8	EV-337996	R S-FIX H RVF8P01 3P 104
1-IC10	EI-338171	IC LC4069UB	1-L1	EO-337608	COIL FIX 1 LAL04 2.2 µH M
1-IC11	EI-332287	IC M54517P	1-L2, 3	EO-318365	COIL FIX 1 LAL04 1MH K
1-IC12	EI-315379	IC TC5066BP	1-L4	EO-318380	COIL FIX 1 LAL04 270 µH K
1-IC13	EI-336794	IC LB1240	1-L5	EO-336934	COIL FIX 1 LAL03KH 2.2µH M
1-IC14	EI-337365	IC LB1426	1-T1	EO-336878	COIL DET 2 78-1049
1-IC15	EI-338675	⚠ IC UPC78M24H	1-T2	EO-336879	COIL DET 2 78-1050
1-TR1	ET-322778	TR 2SA608K-NP E, F, G	1-T3	EO-337572	COIL VARI 2 25-2474 (V)
1-TR2 to 5	ET-316643	TR 2SC536K-NP F, G	1-T4	EO-337573	COIL VARI 2 25-2475 (V)
1-TR2 to 3	ET-322778	TR 2SA608K-NP E, F, G	1-T5	EO-337574	COIL VARI 2 25-2476 (V)
1-TR0 1-TR7	ET-322776 ET-337604	TR FET 2SK246 Y	1-T6, 7	EO-337415	COIL VARI 1 126×GS-6323Z
1-TR8	ET-337604	TR FET 2SK246 Y	1.10, /	20-337413	19KHz
	ET-3376643	TR 2SC536K-NP F, G	1-T8	EO-337598	COIL VARI 2 25A-1353-01
1-TR9 to 13		TR FET 2SK246 Y	1-T9	EO-337599	COIL VARI 2 25A-1354-03 (L)
	6 ET-337604	TR 2SA608K-NP E, F, G	1-T10	EO-337399 EO-202215	COIL OSC 2 7NR-6721Y 100μH
1-TR17	ET-322778	TR 2SC536K-NP F, G (L)	1-T11	EO-202213 EO-307786	
1-TR18	ET-316643	, , ,	1-111	EO-307780	COIL OSC 2 7NR-6722Y 580μH
	2 ET-322778	TR 2SA608K-NP E, F, G (L)	1 T12	FO 127(07	(L)
1-TR23	ET-316643	TR 2SC536K-NP F, G (L)	1-T12	EO-337607	COIL IFT 08A-04 460KHz
1-TR24	ET-323232	TR FET 2SK19 Y (L)	1-T13	EO-202216	COIL IFT 7MC-6733C 460KHz
1-TR26	ET-316643	TR 2SC536K-NP F, G (L)	1-T14	EO-336833	COIL IFT 7MC-7736Z 460KHz
1-TR27	ET-316643	TR 2SC536K-NP F, G	1-FL1 to 3	ER-337989	FILTER CE SFE10.7MPKA
1-TR28	ET-336864	TR FET 2SK223 F (L)	1 51 4	ED 241664	10.7MHz
1-TR29	ET-336864	TR FET 2SK223 F	1-FL4	ER-341654	FILTER LC LP 42W-1001
1-TR30	ET-322778	TR 2SA608K-NP E, F, G	1-FL5	ER-337325	FILTER CE SFZ459G3L
1-TR31	ET-316643	TR 2SC536K-NP F, G	1 57.5	ED 227226	0.459MHz (EXCEPT C, A)
	5 ET-316643	TR 2SC536K-NP F, G (L)	1-FL5	ER-337326	FILTER CE SFZ460G3L 0.46MHz
	4 ET-316643	TR 2SC536K-NP F, G			(C, A)
1-TR45	ET-322778	TR 2SA608K-NP E, F, G	1-FL6	ER-337327	FILTER CE BFU459C4N
1-TR46	ET-322778	TR 2SA608K-NP E, F, G (L)			0.459MHz (EXCEPT C, A)
1-TR47	ET-322778	TR 2SA608K-NP E, F, G	1-FL6	ER-337328	FILTER CE BFU460C4N
1-TR48	ET-316643	TR 2SC536K-NP F, G			0.46MHz (C, A)
1-TR49	ET-307193	△ TR 2SD612K D, E, F	1-X1	EI-327074	OSC X'TAL HC-18/U 9MHz
1-TR50	ET-322778	TR 2SA608K-NP E, F, G	I-FRI	ER-318248	⚠ R FUSE ERD2FC 1/4W 47R0G
1-TR51, 52		TR 2SC536K-NP F, G			(EXCEPT V)
1-TR53	ET-307193	△ TR 2SD612K D, E, F	1-FR1	ER-338408	Δ R FUSE ERD2FC F10 1/4W
1-D1 to 3	ED301911	D SILICON H DS448			91R0G (V)
1-D4	ED-200469	D SILICON H DS448 FA5 F10 (L)	1-FR2	ER-318248	⚠ R FUSE ERD2FC 1/4W 47R0G
1-D5, 6	ED-562386	D GERMA H 1S188AM	1-R5	ER-324480	⚠ R CB H SNP FS RDS 1/4W 470J
1- D 7 to 9	ED-301911	D SILICON H DS448	1- R 7	ER-324184	A R CB H SNP FS RDS 1/4W 121J
1-D10, 11	ED-337605	D VARACTOR SVC333 (A)	1-R24	ER-324184	⚠ R CB H SNP FS RDS 1/4W 121J
		DOUBLE	1- R 38	ER-324184	Δ R CB H SNP FS RDS 1/4W 121J
1-D12	ED-323057	D VARISTER MV12	1-R55	ER-324184	Δ R CB H SNP FS RDS 1/4W 121J
1-D13, 14	ED-301911	D SILICON H DS448			(V)
1-D15	ED-200469	D SILICON H DS448 FA5 F10	1-R62	ER-324184	\triangle R CB H SNP FS RDS 1/4W 121J
1-D16	ED-200469	D SILICON H DS448 FA5 F10 (L)	1-R118	ER-324185	\triangle R CB H SNP FS RDS 1/4W 221J
1- D 17	ED-301911	D SILICON H DS448			(EXCEPT L)
1- D 18	ED-200469	D SILICON H DS448 FA5 F10	1-R118	ER-324184	⚠ R CB H SNP FS RDS 1/4W 121J
1-D19 to 21	ED-301911	D SILICON H DS448			(L)
1-D22, 23	ED-200469	D SILICON H DS448 FA5 F10 (L)	1-R124	ER-324184	⚠ R CB H SNP FS RDS 1/4W 121J
1-D24	ED-200469	D SILICON H DS448 FA5 F10 (J)	1-R129	ER-322787	⚠ R CB H SNP FS RDS 1/4W 100J
1-D25, 26	ED-200469	D SILICON H DS448 FA5 F10	1-R204	ER-324186	⚠ R CB H SNP FS RDS 1/4W 681J
		(C, A)	1-R222	ER-324186	R CB H SNP FS RDS 1/4W 681J
1- D 27	ED-200469	D SILICON H DS448 FA5 F10 (V)	1-C42	EC-330309	C STY F05 CQ09S 511J 50DC
1-D28	ED-200469	D SILICON H DS448 FA5 F10	j		(EXCEPT C, A)
1-D29,30	ED-200469	D SILICON H DS448 FA5 F10 (V)	1-C42	EC-323252	C STY V CQ09S 771J 50DC (C, A)
_2,-3					<u> </u>

2. POWER P.C BOARD BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
1-C43	EC-330309	C STY F05 CQ09S 511J 50DC (EXCEPT C, A)
	EC 222252	C STY V CQ09S 771J 50DC (C, A)
1-C43	EC-323252	C STY V F05 CQ09S 4900G 50DC
1-C64	EC-300448	(EXCEPT L)
		C STY V SNP CQFS 4700G 50DC
1-C64	EC-338585	(T)
	001065	C STY V F05 CQ09S 161J 50DC
1-C65	EC-334065	(L)
		• •
1-C106	EC-337581	C EC 224 5DC
1-C119, 120	EC-320548	C CE V F 103Z 250AC
1-VCl	EC-336865	C S-FIX H CTZ51C 3.0-10
		(EXCEPT L)
1-VC1	EC-337603	C S-FIX H CTZ51F132 5.5-30 (L)
1-VC2	EC-337602	C S-FIX H CTZ51E127 4.5-20 (L)
1-VC3	EC-337603	C S-FIX H CTZ51F132 5.5-30
1-TM1	EJ-341367	TERMINAL W/SCREW T5827
		P 3P (U)
1-TM1	EJ-337595	TERMINAL W/SCREW T5820
1 1.1.11	· -	$P \cdot 2P(C, A, J)$
1-TM1	EJ-337596	TERMINAL W/SCREW T5819
1 - 7 1411		P 2P (E, B, S)
1-TM1	EJ-337597	TERMINAL W/SCREW T5818
1-11411	<u> </u>	P 2P (V)
	- 255 ATT 03	U.D. C.BOARD PI OCK
		N P.C BOARD BLOCK
1-IN1	EM-337426	IND FL 9-BT-01ZK CHARACTER
1-D1 to 3	ED-337414	D LED SLP-235B GRN
1-D4 to 6	ED-301911	D SILICON H DS448
1 757 : 12	ED 337414	D LED SLP-235B GRN

1-D14

1-D7 to 13

ED-337414

ED-337413

1-SW1 to 20 ES-336760

D LED SLP-235B GRN

D LED SLP-135B RED

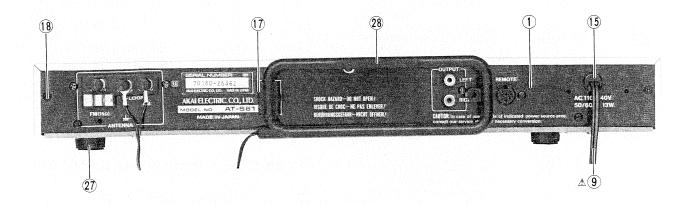
SW TACT EVQ-QJR02K

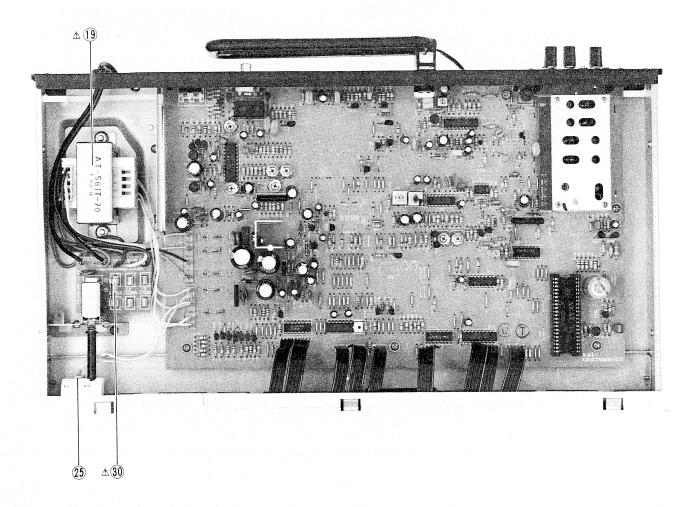
REF. NO.	PARTS NO.	DESCRIPTION
2-SW1	ES-336909	△ SW PUSH ESB-90259S 01-1 C (U, E, B, S)
2-SW1	ES-328788	△ SW PUSH ESB-90144T 01-1 UC (C, A)
2-SW1 2-C1 2-C1 2-C1 2-C1	ES-328787 EC-320548 EC-314688 EC-338496 EC-338577	↑ SW PUSH ESB-90149R 01-1 J (J) ↑ C CE V F 103Z 250AC (U, J) ↑ C CE V FZ 103P 125AC (C, A) ↑ C CE V FZ 472P 400AC (E, B, S) ↑ C CE V F 472M 400AC (E, B) (L)

3. FILTER P.C BOARD BLOCK (V ONLY)

REF. NO.	PARTS NO.	DESCRIPTION
3-FL1	FILTER P.C EO-338409	BOARD BLOCK (V ONLY) \triangle COIL LF FKOB160MH02 250 μ H (V)
3-SW1 3-C1	POWER P.C ES-336909 EC-338496	BOARD BLOCK (V ONLY) \$\Delta\$ SW PUSH ESB-90259S 01-1 C (V) \$\Delta\$ C CE V FZ 472P 400AC (V)

ASSEMBLY BLOCK

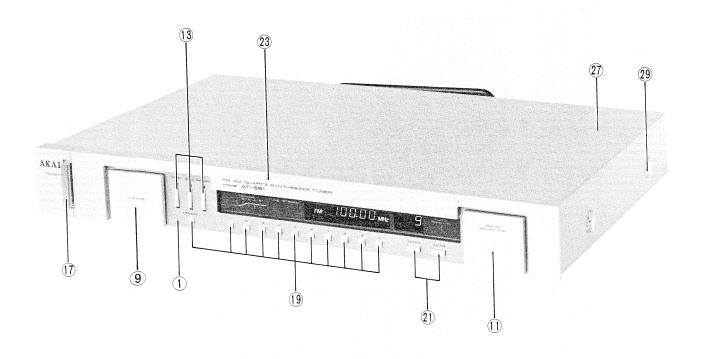




4. ASSEMBLY BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
4-1	SP-332734A	PANEL REAR AT-S61(U)
	SP-332734B	PANEL REAR AT-S61(C)
4-2x		PANEL REAR AT-S61 (A)
4-3x	SP-332734C	PANEL REAR AT-S61 (E, V)
4-4x	SP-332734D	
4-5x	SP-332734E	PANEL REAR AT-S61 (S)
4-6x	SP-332734F	PANEL REAR AT-S61L (E)
4-7x	SP-332734G	PANEL REAR AT-S61L (B)
4-8x	SP-332734H	PANEL REAR AT-S61 (J)
4-9	EW-306428	⚠ AC CORD 2 CORES KP-205A, VFF J (U)
4-10x	EW-306427	△ AC CORD 2 CORES KP-211, VFF J (J)
4-11x	EW-305691	⚠ AC CORD 2 CORES KP-8, SPT-1 UC (C, A)
4-12x	EW-336923	⚠ AC CORD 2 CORES KP-419C, LTCE-2F E (E, S)
4-13x	EW-336926	\triangle AC CORD GTBS-2F 24/0.20×2 B (B)
4-14x	EW-336924	\triangle AC CORD 2 CORES KP-560, LTSA-2FS (V)
4-15	SZ-631945	STRAIN RELIEF SR-4N-4 (EXCEPT B)
4-16x	EJ-692908	STRAIN RELIEF SR-5N-4 (B)
4-17	SZ-332739	HOLDER ANTENNA
4-18	ZS-319460	T2BR30x06STL BZN PROJECTION
4-10	BT-337970	⚠ TRANS POWER AT-S61T-70 (U)
	BT-337978	Δ TRANS POWER AT-S61T-11 (J)
4-20x		△ TRANS POWER AT-S61T-30
4-21x	BT-337971	(C, A)
4-22x	BT-337973	⚠ TRANS POWER AT-S61T-40 (B) (E, V)
4-23x	BT-337974	⚠ TRANS POWER AT-S61T-50 (B) (B, S)
4-24x	ZW-698308	RV NYL30×055 BL
4-25	EL-337975	PL CORD 9.0V 40MA 140/140 (IN901)
4-26x	SP-332738	COVER BOTTOM
4-27	SA-332850	ROUND FOOT
4-28	EE-337976	ANT LOOP LA-200A
4-28 4-29x	ZW-305013	RV POP32 (A)
	EF-308933	⚠ FUSE TSC A 250V 0.20A (F1) (U)
4-30	EF-309389	⚠ FUSE TSC A 250V 0.40A (F1) (U)
4-31x		⚠ FUSE TSC A 250V 0.50A (F1) (J)
4-32x	EF-327103	△ FUSE TSC 125V 0.50A (F1, 2, 3)
4-33x	EF-309390	(C, A)
4-34x	EF-306088	⚠ FUSE TSC 125V 0.31A (F4) (C, A)
4-35x	EF-315334	⚠ FUSE TSC 125V 0.25A (F5) (C, A)
4-36x	EF-300599	♠ FUSE FST3100 T 250V 0.40A
4-30%	27 200077	(F1, 2) (E, B, S, V)
4-37x	EF-322975	⚠ FUSE EAWK T 250V 0.16A (F3) (E, B, S, V)
4-38x	EF-300588	↑ FUSE EAWK T 250V 0.20A (F4) (E, B, S, V)
4-39x	EF-322975	⚠ FUSE EAWK T 250V 0.16A (F5) (E, B, S, V)

FINAL ASSEMBLY BLOCK



5. FINAL ASSEMBLY BLOCK

REF.	PARTS NO.	DESCRIPTION	REF. NO.	PARTS NO.	DESCRIPTION
	PANEL OPERA	TION BLOCK			MBLY BLOCK
5-1	BD-A3027A020A	PANEL OPERATION BLK AT-S61 (AT-S61/L)	5-17 5-18x	SK-332744 ZG-313182	KNOB POWER SP C-4.5/0.35-25.0 C-029
5-2x	BD-A3027A020B	PANEL OPERATION BLK AT-S61-P (AT-S61-P/LP)	5-19 5-20x	SK-342499A SK-342499B	KNOB PUSH (B-1) KNOB PUSH (B-1)-P KNOB PUSH (B-2)
5-3x	BD-A3027A020C	PANEL OPERATION BLK AT-S61-J	5-21 5-22x	SK-342499C SK-342499D	KNOB PUSH (B-2)-P PANEL FRONT AT-S61 (AT-S61/J
5-4x	BD-A3027A020D	PANEL OPERATION BLK AT-S61-JP	5-23 5-24x	SP-332753A SP-332753B	PANEL FRONT AT-S61-P (AT-S61P/JP)
5-5x	SP-332743A	PANEL OPERATION (A) (AT-S61/L)	5-25x	SP-332753C	PANEL FRONT AT-S61L PANEL FRONT AT-S61L-P
5-6x	SP-332743B	PANEL OPERATION (A)-P (AT-S61-P/LP)	5-26x 5-27	SP-332753D SP-332752A	COVER UPPER COVER UPPER-P
5-7x 5-8x	SP-332743C SP-332743D	PANEL OPERATION (B) (AT-S61J) PANEL OPERATION (B)-P (AT-S61JP)	5-28x 5-29 5-30x	SP-332752B ZS-322570 ZS-322580	ST BID40×08STL NI3 ST BID40×08STL BNI
5-9 5-10x 5-11 5-12x 5-13 5-14x 5-15x 5-16x	SK-332745A SK-332745B SK-332747A SK-332747B SK-332750A SK-332750B SE-342181 SZ-332748	KNOB TUNING KNOB TUNING-P KNOB BAND KNOB BAND-P KNOB PUSH (A) KNOB PUSH (A)-P MASK LED WIND FRONT			

2Z254

RECOMMENDED SPARE PARTS LIST

Because, if the parts listed below are on hand, almost any repair can be accomplished, we suggest that you stock these Recommended Spare Parts Items.

REF. NO.	PARTS NO.	DESCRIPTION	REF. NO.	PARTS NO.	DESCRIPTION
1	BT-341430	⚠ TRANS POWER AMU-41T-10 (J)	50 51	ES-323369 ES-337398	SW REMOTE S SSR24602D 04-6 SW REMOTE W SBU0006F L=120
2	BT-341431	⚠ TRANS POWER AMU-41T-20 (A)	52 53	ET-337984 ET-337759	TR FET 2SK150 BL, GR TR FET 2SK246 GR
3	BT-341432	⚠ TRANS POWER AMU-41T-30 (C)	54 55	ET-337234 ET-200479	TR FET 2SK270 GR, BL TR 2SA1115 D, E, F
4	BT-341433	⚠ TRANS POWER AMU-41T-40	56	ET-337985	TR 2SA1144 O, Y TR 2SA970 GR, BL
_	BT-341434	(E, V) \triangle TRANS POWER AMU-41T-50	57 58	ET-305463 ET-308866	TR 2SA970 GR, BE
5	B1-341434	(B, S)	59	ET-337760	TR 2SA984K F
6	BT-341435	\triangle TRANS POWER AMU-41T-70 (U)	60	ET-301165 ET-307195	TR 2SB631K E, F TR 2SC2240 GR, BL
7	ED-337391	D LED GL-5NG6 GRN	62	ET-337758	TR 2SC2259 G, H
8	ED-330320	D SILICON DBA10C 200/1.0A	63	ET-308977	TR 2SC2274K F
9	ED-336805	D SILICON DS135D-KB1 200/1.0A	64	ET-337986	TR 2SC2704 O, Y
10	ED-337153	D SILICON H DS446FA5 F10	65	ET-316171	TR 2SC536K-NP E, F
11	ED-200469	D SILICON H DS448 FA5 F10	66	ET-300931	TR 2SD600K E, F
12	ED-323057	D VARISTER MV12	67	ET-328440	TR 2SD863-V8 E, F
13	ED-330218	D ZENER H HZ15L 2	68	EV-325629	VR ROTARY 16P20×IQ C104
14	ED-337990	D ZENER H HZ27L 1	69	EV-325630	VR ROTARY 16P20×1R C104
15	ED-337750	D ZENER H 05Z16Y	70	EV-337987	VR ROTARY 16P20×2W 1Z254
16	ED-338096	D ZENER H 05Z2.0 X			2Z25
17	ED-337761	D ZENER H 05Z24 X	71	EV-337308	VR SLIDE 100P2SV0B B254
18	ED-337751	D ZENER H 05Z4.3 X			
19	ED-323534	D ZENER H 05Z20 Z			
20	EF-258344	⚠ FUSE SEMKO T 250V 0.80A (F2, 3, 4) (E, B, S, V)			
21	EF-623125	⚠ FUSE SEMKO T 250V 2.5A (F1) (E, B, S, V)			
22	EF-623125	⚠ FUSE SEMKO T 250V 2.5A (F1)(U)			
23	EF-249851	⚠ FUSE SEMKO T 250V 5A (F1)(U)			
24	EF-459843	⚠ FUSE ST6 125V 5A (F1) (C, A)			
25	EF-200952	♠ FUSE TSC A 250V 6.3A (F1) (J)			
26	EF-309388	⚠ FUSE TSC A 250V 0.80A (F2, 3, 4) (J)			
27	EF-309391	⚠ FUSE TSC 125V 0.08A (F2) (C, A)			
28	EF-310229	⚠ FUSE TSC 125V 1A (F3, 4) (C, A)			
29	EI-337593	IC STK-1060 (2)			
30	EI-200938	IC TA75558S			
31	EJ-337405	\triangle SOCKET OUTLET S2T733T164 JUC 3×2P (U, J, C, A)			
32	EL-337757	PL LEAD 14.0V 50MA			
33	EP-323565	RELAY POWER G2Z-222P-US			
34	EP-337416	2NO 24V RELAY SIGNAL G2V-282P-NL			
	ER-338000	2TR 12V ⚠ R FUSE ERD2FC F10 1/4W			
35		2200G ⚠ R FUSE ERD2FC F10 1/4W			
36	ER-337756	4700G ⚠ R FUSE ERD2FC F10 1/4W			
37	ER-332225	56R0G			
38	ES-337390	⚠ SW PUSH ESB-70274T 01-1 UC (C)			
39	ES-328788	⚠ SW PUSH ESB-90144T 01-1 UC (A)			
40	ES-328787	⚠ SW PUSH ESB-90149R 01-1 J (J)			
41	ES-336909	⚠ SW PUSH ESB-90259S 01-1 C (U, E, B, S, V)			
42	ES-337394	SW PUSH SUL122A 02-2 S			
43	ES-337392	SW PUSH SUL232S 2-THROW			
44	ES-337393	SW PUSH SUL241A 2-THROW			
45	ES-337998	SW PUSH SUL532A 5-THROW			
46	ES-337389	SW PUSH SUN222A 2-THROW			
47	ES-337317	SW REMOTE B SWR1300 L=300			
48	ES-337403	SW REMOTE O SUR510			
49	ES-337388	SW REMOTE S SSR2435 04-3			

1. MAIN AMP P.C BOARD BLOCK

REF. NO.	PARTS NO.	DESCRIPTION	REF.	PARTS NO.	DESCRIPTION
1-1	BA-A201 8A060A	PC MAIN AMP BLK AM-U41 (U)	I-FRI	ER-332225	⚠ R FUSE ERD2FC F10 1/4W 56ROG (U, E, B, S, V)
1-2 1-3	BA-A201 8A060B BA-A201 8A060C	PC MAIN AMP BLK AM-U41 (J) PC MAIN AMP BLK AM-U41 (C) (C, A)	1-FR2	ER-338000	↑ R FUSE ERD2FC F10 1/4W 2200G (U, E, B, S, V)
1-4	BA-A201 8A060D	PC MAIN AMP BLK AM-U41 (E) (E, B, S)	1-FR3, 4	ER-337756	⚠ R FUSE ERD2FC F10 1/4W 4700G (U, E, B, S, V)
1-5	BA-A201 8A060E	PC MAIN AMP BLK AM-U41P (U)	1-R17	ER-324337	⚠ R CB H SNP FS RDS 1/4W 560J (U, J, C, A)
1-6 1-7	BA-A201 8A060F BA-A201 8A060G	PC MAIN AMP BLK AM-U41P (J) PC MAIN AMP BLK AM-U41 (C)	1-R32 1-R35	ER-337752 ER-324185	A ROMFH FS 1W 103J A RCBH SNP FS RDS 1/4W
1-8	BA-A2018A060H	(C, A) PC MAIN AMP BLK AM-U41 (E)	1-R39, 40 1-R41, 42	ER-323075 ER-322591	221J (U, J, C, A) Å R CB H SNP FS RDS 1/4W 472J Å R CB H SNP FS RDS 1/4W 101J
1-9	BA-A2018A060J BA-A2018A060K	(E, B, S) PC MAIN AMP BLK AM-U41 (V) PC MAIN AMP BLK AM-U41-P	1-R47, 48 1-R51	ER-328082 ER-323075	A R CB H SNP FS RDS 1/4W 332J A R CB H SNP FS RDS 1/4W 472J
1-10	BA-A2018A000K	(V)	1-R52 1-R59, 60	ER-333689 ER-323075	⚠ R CB H SNP FS RDS 1/2W 682J ⚠ R CB H SNP FS RDS 1/2W 472J
	MAIN AMP P.O	C BOARD BLOCK	1-R61, 62	ER-316802	⚠ R CB H SNP FS RDS 1/4W 471J
1-IC1	EI-200938	IC TA75558S			(U, J, C, A)
1-IC3	EI-200938	IC TA75558S	1-R68, 69	ER-337754	⚠ ROMFHSNPFSIW 100J
I-TRI	ET-328440	TR 2SD863-V8 E, F	1-R74	ER-337755	⚠ R OMF H SNP FS 2W 222J
1-TR2	ET-337984	TR FET 2SK150 BL, GR	1-R75	ER-322361	⚠ R OMF H SNP FS 2W 102J
1-TR3	ET-337758	TR 2SC2259 G, H	1-R76	ER-624756	⚠ ROMFHFS2W331J
1-TR4	ET-308866	TR 2SA979 G, H	1-R80	ER-337754	⚠ ROMFHSNPFSIW 100J
1-TR7	ET-305463	TR 2SA970 GR, BL	1-R90, 91	ER-323075	\triangle R CB H SNP FS RDS 1/4W 472J
1-TR8	ET-307195	TR 2SC2240 GR, BL	1-R94, 95	ER-333698	\triangle R CB H SNP FS RDS 1/2W 821J
1-TR9	ET-337985	⚠ TR 2SA1144 O, Y	1-C27, 28	EC-332052	C EC V F05 NP SM 4R7M 35DC
1-TR10	ET-337986	⚠ TR 2SC2704 O, Y	1-C31	EC-334013	C EC V CUT NP SM 331M 6.3DC
1-TR11	ET-305463	TR 2SA970 GR, BL	1-C38, 39	EC-337306	C EC V 123/56DC
	4 ET-307195	TR 2SC2240 GR, BL	1-C42	EC-320548	C CE V F 103Z 250AC (U, J, C, A)
1-TR15	ET-305463	TR 2SA970 GR, BL	1-C42	EC-326583	C MMY V CUT CF921 473K
1-TR16, 17	ET-316171	TR 2SC536K-NP E, F			400DC (E, B, S, V)
1-TR18	ET-305463	TR 2SA970 GR, BL	1-C43	EC-320548	C CE V F 103Z 250AC (U, J, C, A)
1-TR19	ET-328440	TR 2SD863-V8 E, F	1-C43	EC-326583	C MMY V CUT CF921 473K
1-TR20, 21	ET-337759	TR FET 2SK246 GR	1 044 45	EG 220549	400DC (E, B, S, V)
1-TR22	ET-300931	⚠ TR 2SD600K E, F	1-C44, 45	EC-320548	C CE V F 103Z 250AC C CE V F 103Z 250AC (E, B, S, V)
1-TR23	ET-301165	⚠ TR 2SB631K E, F	1-C46 to 45	9 EC-320548	C CE V F 103Z 230AC (E, B, S, V)
1-TR24	ET-307195	TR 2SC2240 GR, BL		MUTE P.C BO	ADD BLOCK
1-TR25	ET-337760	TR 2SA984K F ⚠ TR 2SD600K E, F	1-SW1	ES-337393	SW PUSH SUL241A 2-THROW
1-TR26	ET-300931	△ TR 2SB631K E, F	1-5,71	L3-337373	5 W 1 C311 30 E2+1A 2-111RO W
1-TR27	ET-301165 ED-338096	D ZENER H 05Z2.0 X		SPEAKER SW	P.C BOARD BLOCK
1-D1, 2 1-D3	ED-200469	D SILICON H DS448 FA5 F10	1-SW1	ES-337392	SW PUSH SUL232S 2-THROW
1-D3 1-D4 to 7	ED-337153	D SILICON H DS446 FA5 F10			
1-D4 to 7	ED-200469	D SILICON H DS448 FA5 F10		LAMP(1) P.C	BOARD BLOCK
1-D ₀ , 5	ED-337153	D SILICON H DS446 FA5 F10	1-IN1, 2	EL-337757	PL LEAD 14-0V 50MA
1-D11	ED-337750	D ZENER H 05Z16 Y			
1- D 12	ED-337153	D SILICON H DS446 FA5 F10		LAMP (2) P.C	BOARD BLOCK
1-D13	ED-336805	⚠ D SILICON DS135D-KB1	1-IN1	EL-337757	PL LEAD 14.0V 50MA
		200/1.0A	1-D1 to 4	ED-337391	D LED GL-5NG6 GRN
1-D14	ED-337153	D SILICON H DS446 FA5 F10		ID (1) D C D C	AND BY COV
1- D 15	ED-200749	△ D SILICON DBA60-K15		VR (1) P.C BO	
		400/6.0A	I-VRI	EV-337308	VR SLIDE 100P2SV0B B254
1- D 16	ED-330320	△ D SILICON DBA10C 200/1.0A		HEAD DHON	E D C DOADD DI OCK
1- D 17	ED-323534	D ZENER 05Z20 Z		HEAD FROM	E P.C BOARD BLOCK (EXCEPT V)
1-D18, 19	ED-337990	D ZENER H HZ27L 1	1-J8	EJ-336885	PHONE J 3P HLJ0607-023 6.3
1-D20, 21	ED-330218	D ZENER H HZ15L 2 D SILICON H DS446 FA5 F10	1-J8	EJ-336886	PHONE J 3P HLJ0607-020 6.3 (P)
1-D22	ED-337153	D ZENER H 05Z4.3 X	1-30	L3-330000	1110112331 11230007-020 0.3 (1)
1-D23 1-D24	ED-337751 ED-337761	D ZENER H 05Z24 X		HEAD PHON	E P.C BOARD BLOCK
1-D24 1-D25, 26	ED-337761 ED-200469	D SILICON H DS448 FA5 F10			(V ONLY)
1-D27, 28	ED-200467 ED-337751	D ZENER H 05Z4.3 X	1-J8	EJ-336885	PHONE J 3P HLJ0607-023 6.3
1-D29	ED-337153	D SILICON H DS446 FA5 F10	1-J8	EJ-336886	PHONE J 3P HLJ0607-020 6.3 (P)
1-SW1	ES-337389	SW PUSH SUN222A 2-THROW	1-L1	EO-336934	COIL FIX 1 LAL03KH 2.2µH M
1-SW2	ES-337394	SW PUSH SUL122A 02-2 S			
1-VR1	EV-325629	VR ROTARY 16P20x1Q C104			
1-VR2	EV-325630	VR ROTARY 16P20×1R C104			
1-VR3	EV-337987	VR ROTARY 16P20×2W 1Z254 2Z254			
1-RL1	EP-337416	RELAY SIGNAL G2V-282P-NL 2TR 12V			
1-RL2	EP-323565	RELAY POWER G2Z-222P-US 2NO 24V			
1-L1	EO-332116	COIL FIX 2 103AK-006A 2.2μ H			

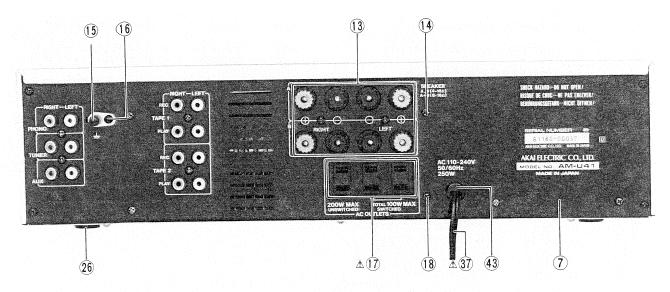
2. EQUALIZER P.C BOARD BLOCK

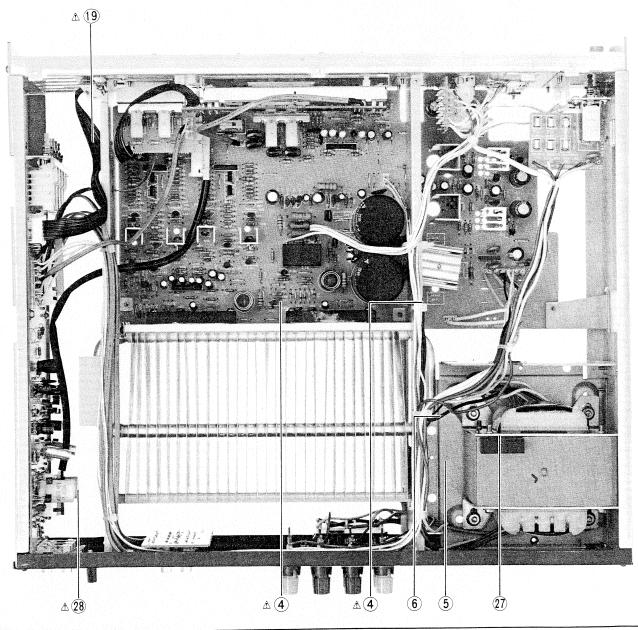
REF. NO.	PARTS NO:	DESCRIPTION
2-1	BA-A2018A040A	PC EQ BLK AM-U41 (U) (U, J, C, A, E, B, S)
2-2	BA-A2018A040B	PC EQ BLK AM-U41 (V)
	EOUALIZER P.	C BOARD BLOCK
2-TR1	ET-337234	TR FET 2SK270 GR, BL
2-TR2, 3	ET-307195	TR 2SC2240 GR, BL
2-TR4 to 6	ET-305463	TR 2SA970 GR, BL
2-TR7	ET-307195	TR 2SC2240 GR, BL
2-TR8	ET-308977	TR 2SC2274K F
2-TR9	ET-337760	TR 2SA984K F
2-D1 to 3	ED-200469	D SILICON H DS448 FA5 F10
2-D1 to 3	ED-323057	D VARISTER MV12
2-D5	ED-200469	D SILICON H DS448 FA5 F10
2-D3 2-J1	EJ-337404	PIN J AJC-052-ABB P 6P
2-J1 2-J4	EJ-324913	SOCKET JAMPER W-D0606 6P
2-SW1	ES-337388	SW REMOTE S SSR2435 04-3
2-SW2	ES-337998	SW PUSH SUL532A 5 THROW
2-SW3	ES-323369	SW REMOTE S SSR24602D 04-6
2-3113 2-L1	EO-337684	COIL FIX 2 FL12R751E 750µH
2-L2, 3	EO-336934	COIL FIX 1 LAL03KH 2.2μH M
2-FR1, 2	ER-332225	⚠ R FUSE ERD2FC F10
2-1 1(1, 2		1/4W 56R0G
2-R15	ER-337999	R MF H F10 1/4W 82R0F
2-R16	ER-337100	R MF H F10 1/4W 9R10F
2-R17	ER-323352	R MF H F10 1/4W 4532F
2-R18	ER-323351	R MF H F10 1/4W 3741F
2-R10 2-R27, 28		R CB H SNP FS RDS 1/4W 220J
2-K27, 20 2-C6	EC-324103	C PP V SNP PS 6972G 50DC
2-C0 2-C7	EC-324102	C PP V SNP PS 2002G 50DC
2-01		
	PIN JACK P.O	C BOARD BLOCK
2-J1	EO-336934	COIL FIX 1 LAL03KH 2.2μH M
2-J2	EJ-336915	PIN J C-810 P 4P
2-12 2-L1 to 4		COIL FIX 1 LAL03KH 2.2μH M
2-21 10 1		

3. POWER P.C BOARD BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
3-SW1	ES-336909	∆ SW PUSH ESB-90259S 01-1 C (U, E, B, S, V)
3-SW1	ES-328787	∆ SW PUSH ESB-90149R 01-1 J (J)
3-SW1	ES-337390	⚠ SW PUSH ESB-70274T 01-1 UC (C)
3-SW1	ES-328788	⚠ SW PUSH ESB-90144T 01-1 UC (A)
3-FL1	EO-338409	Δ COIL LF FKOB160MH02 250μH (V)
3-C1	EC-320548	⚠ C CE V F 103Z 250AC (U, J)
3-C1	EC-338411	♠ C CE V FZ 103P 400AC (B, S, V)
3-C1	EC-330308	⚠ C MMY V ECQUF 103M 250AC (E)
3-C1	EC-314688	⚠ C CE V FZ 103P 125AC (C, A)

ASSEMBLY BLOCK

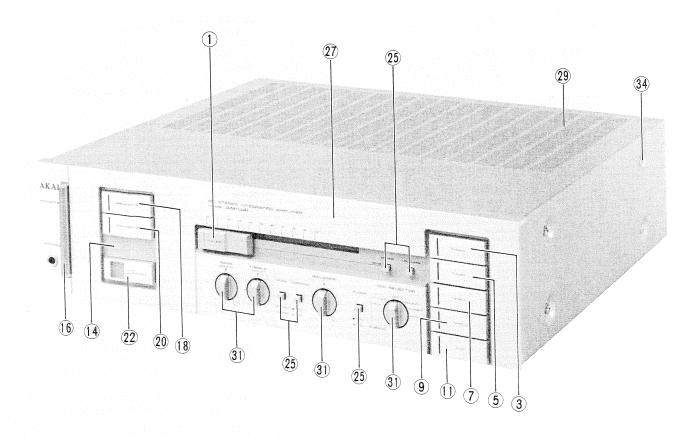




4. ASSEMBLY BLOCK

4. 1100					
REF. NO.	PARTS NO.	DESCRIPTION	REF. NO.	PARTS NO.	DESCRIPTION
		L DD DI OCH		ASSEMBLY B	LOCK
	LED (1) P.C BC	JARD BLUCK	4-7	SP-336440B	PANEL REAR AM-U41 (U)
4-1 x	ED-337391	D LED GL-5NG6 GRN (D1to10)	4-8x	SP-336440A	PANEL REAR AM-U41 (J)
		C DO A DD DY OCV	4-9x	SP-336440D	PANEL REAR AM-U41 (C)
		C BOARD BLOCK	4-9x 4-10x	SP-336440C	PANEL REAR AM-U41 (A)
4-2x	EJ-342935	TERMINAL (J1) (V)		SP-336440E	PANEL REAR AM-U41 (E) (E, V)
4-3x	EO-342936	COIL BALUN (FL1) (V)	4-11x	SP-336440F	PANEL REAR AM-U41 (B) (B, S)
		- 0 CV	4-12x 4-13	EJ-337406	TERMINAL W/SCREW
	MAIN AMP B		4-13	EJ-33/400	ANB-024-AAA S 8P
4-4	EI-337593	⚠ IC STK-1060 (2) (IC2)	4-14	ZS-522865	T2BR30x12STL BNI
		DI OCI	4-15	EJ-329610	TERMINAL W/SCREW UB-0067
	SW REMOTE		4-13	LJ-327010	LIP
4-5	ES-337403	SW REMOTE O SUR510	4-16	ZS-308846	T2BR30×08STL BZN PROJECTION
		(PHONO MM/MC)		EJ-337405	△ SOCKET OUTLET S2T733T164
4-6	ES-337317	SW REMOTE B SWR1300 L=300	4-17		JUC 3x2P (U, J, C, A)
			4-18	ZS-308846	T2BR30x08STL BZN PROJECTION
			4-19	BT-341435	\triangle TRANS POWER AMU-41T-70 (U)
			4-20x	BT-341430	\triangle TRANS POWER AMU-41T-10 (J)
			4-21x	BT-341432	\triangle TRANS POWER AMU-41T-30 (C)
			4-22x	BT-341431	↑ TRANS POWER AMU-41T-20 (A)
			4-23x	BT-341433	↑ TRANS POWER AMU-41T-40 (E, V)
			4-24x	BT-341434	\triangle TRANS POWER AMU-41T-50 (B, S)
			4-25x	SP-336441	COVER LOWER (A)
			4-26	SA-332850	ROUND FOOT
			4-27	ES-337398	SW REMOTE W SBU0006F L=120 (REC SELECTOR)
			4-28	EF-249851	FUSE SEMKO T 250V 5A (F1) (U)
			4-29x	EF-623125	△ FUSE SEMKO T 250V 2.5A (F1) (U)
			4.20	EE 200052	⚠ FUSE TSC A 250V 6.3A (F1) (J)
			4-30x	EF-200952	⚠ FUSE TSC A 250V 0.5A (11)(3) ⚠ FUSE TSC A 250V 0.80A
			4-31x	EF-309388	(F2, 3, 4) (J)
			4 22	EF-459843	△ FUSE ST6 125V 5A (F1) (C, A)
			4-32x	EF-309391	⚠ FUSE TSC 125 V 0.08A (F2)
			4-33x	E1-307371	(C, A)
			4-34x	EF-310229	⚠ FUSE TSC 125V 1A (F3, 4) (C, A)
			4-34x 4-35x	EF-623125	⚠ FUSE SEMKO T 250V 2.5A
			4-3JX	L1-023123	(F1) (E, B, S, V)
			4-36x	EF-258344	⚠ FUSE SEMKO T 250V 0.80A
			4-20%	E1 -2303 1 1	(F2, 3, 4) (E, B, S, V)
			4-37	EW-306428	△ AC CORD 2 CORES KP-205A, VFF J (U)
			4-38x	EW-306427	△ AC CORD 2 CORES KP-211, VFF J (J)
			4-39x	EW-328245	⚠ AC CORD 2 CORES KP-8/SPT-1 105C UC (C, A)
			4-40x	EW-336923	△ AC CORD 2 CORES KP-419C, LTCE-2F E (E, V)
			4-41x	EW-336926	\triangle AC CORD GTBS-2F 24/0.20×2 B (B)
			4-42x	EW-336924	△ AC CORD 2 CORES KP-560, LTSA-2FS(S)
			4-43	SZ-631945	STRAIN RELIEF SR-4N-4 (U, J, C, A, E, S, V)
			4-44x	EJ-692908	STRAIN RELIEF SR-5N-4 (B)

FINAL ASSEMBLY BLOCK



5. FINAL ASSEMBLY BLOCK

REF. NO.	PARTS NO.	DESCRIPTION	REF. NO.	PARTS NO.	DESCRIPTION
	- CANTIGUE ON	DANIEL (D) DLOCK		FINAL ASSE	MBLY BLOCK
		PANEL (B) BLOCK KNOB SLIDE	5-25	SK-336471A	KNOB MUTE (A)
5-1	SK-336479A		5-26x	SK-336471B	KNOB MUTE (A)-P
5-2x	SK-336479B	KNOB SLIDE-P	5-27	SP-336465A	PANEL FRONT AM-U41
5-3	SK-B336472E	KNOB OPERATE (A-3) PART	5-28x	SP-336465B	PANEL FRONT AM-U41-P
5-4x	SK-B336472F	KNOB OPERATE (A-3)-P PART	5-29	SP-336443A	COVER UPPER
5-5	SK-B336472G	KNOB OPERATE (A-4) PART	5-30x	SP-336443B	COVER UPPER-P
5-6x	SK-B336472H	KNOB OPERATE (A-4)-P PART	5-31	SK-336470A	KNOB
5-7	SK-B336472J	KNOB OPERATE (A-5) PART	5-32x	SK-336470B	KNOB-P
5-8x	SK-B336472K	KNOB OPERATE (A-5)-P PART	5-32x 5-33x	ZW-305013	RV POP32
5-9	SK-B336472L	KNOB OPERATE (A-6) PART	5-33X 5-34	ZS-322570	ST BID40×08STL NI3
5-10x	SK-B336472M	KNOB OPERATE (A-6)-P PART		ZS-322570 ZS-322580	ST BID40×08STL BNI
5-11	SK-B336472N	KNOB OPERATE (A-7) PART	5-35x	23-322300	31 BID4000081E 2.11
5-12x	SK-B336472P	KNOB OPERATE (A-7)-P PART			
5-13x	ZG-313027	SP T1-5.0/0.32-18.0 T1-140			
	FSCUTCHEON	PANEL (A) BLOCK			
5-14	BD-A2018A030A	ESCUTCHEON PANEL (A) BLK AM-U41			
5-15x	BD-A2018A030B	ESCUTCHEON PANEL (A) BLK			
		AM-U41-P			
5-16	SK-B336468	KNOB OPERAT PART			
5-17x	ZG-336449	SP PLATE (A)			
5-18	SK-B336472A	KNOB OPERATE (A-1) PART			
5-19x	SK-B336472B	KNOB OPERATE (A-1)-P PART			
5-20	SK-B336472C	KNOB OPERATE (A-2) PART			
5-21x	SK-B336472D	KNOB OPERATE (A-2)-P PART			
5-22	SK-B336474A	KNOB OPERATE (B) PART			
5-23x	SK-B336474B	KNOB OPERATE (B)-P PART			
5-24x	ZG-336460	SP PUSH (D)			

RECOMMENDED SPARE PARTS LIST

Because, if the parts listed below are on hand, almost any repair can be accomplished, we suggest that you stock these Recommended Spare Parts Items.

REF. NO.	PARTS NO.	DESCRIPTION	REF. NO.	PARTS NO.	DESCRIPTION
1	BT-338023	⚠ TRANS POWER AM-U61T-10	47 48	ES-337392 ES-337393	SW PUSH SUL232S 2-THROW SW PUSH SUL241A 2-THROW
2	BT-338024	△ TRANS POWER AM-U61T-20 (A)	49 50	ES-337998 ES-337389	SW PUSH SUL532A 5-THROW SW PUSH SUN222A 2-THROW
3	BT-338025	↑ TRANS POWER AM-U61T-30 (C)	51 52	ES-337401 ES-337400	SW REMOTE S SSR244 04-4 SW REMOTE S SSR26602D 06-6
4	BT-338026	⚠ TRANS POWER AM-U61T-40 (E)	53 54	ES-337399 ES-337402	SW REMOTE W SBU0006F L=120 SW REMOTE W SBU004F L=280
5	BT-338028	⚠ TRANS POWER AM-U61T-50 (B, S)	55 56	ET-337984 ET-337759	TR FET 2SK150 BL, GR TR FET 2SK246 GR
6	BT-338029	\triangle TRANS POWER AM-U61T-60 (V)	57 58	ET-337234 ET-337985	TR FET 2SK270 GR, BL TR 2SA1144 O,Y
7	BT-338030	⚠ TRANS POWER AM-U61T-70 (U)	59 60	ET-305463 ET-308866	TR 2SA970 GR, BL TR 2SA979 G, H
8	ED-337391	D LED GL-5NG6 GRN	61	ET-337760	TR 2SA984K F TR 2SB631K E, F
9	ED-337395	D LED SR538W RED	62	ET-301165 ET-307195	TR 2SC2240 GR, BL
10	ED-330320	D SILICON DBA10C 200/1.0A	63	ET-337758	TR 2SC2259 G, H
11	ED-336805	D SILICON DS135D-KB1 200/1.0A	64	ET-308977	TR 2SC2274K F
12	ED-337153	D SILICON H DS446 FA5 F10	65		TR 2SC2704 O, Y
13	ED-200469	D SILICON H DS448 FA5 F10	66	ET-337986	TR 2SC536K-NP E, F
13	ED-338041	D SILICON 10G4B41 400/10.0A	67	ET-316171	TR 2SD600K E, F
15	ED-323057	D VARISTER MV12	68	ET-300931	TR 2SD863-V8 E, F
16	ED-330218	D ZENER H HZ15L 2	69	ET-328440	R S-FIX V H1052A 3P 0.15W 104
17	ED-337990	D ZENER H HZ27L 1	70	EV-338118	VR ROTARY 16P20×2C 1Z254
18	ED-328481	D ZENER H 05Z20 X	71	EV-330724	VR ROTARY 16P20×2D C 104
19	ED-306469	D ZENER H 05Z22 X	72	EV-330725	VR ROTARY 16P20×2E C 104
20	ED-338049	D ZENER H 05Z24 Y	73	EV-330843	VR SLIDE 100P2SV0A B254
21	ED-337751	D ZENER H 05Z4.3 X	74	EV-337309	VK SEIDE 100125 VOIT 220 V
22	EF-258344	△ FUSE SEMKO T 250V 0.80A (F2, 3, 4) (E, B, S, V)			
23	EF-691007	⚠ FUSE SEMKO T 250V 3.15A (F1)(U)			
24	EF-691007	⚠ FUSE SEMKO T 250V 3.15A (F1) (E, B, S, V)			
25	EF-242605	⚠ FUSE SEMKO T 250V 6.30A (F1)(U)			
26	EF-303348	↑ FUSE ST6 125V 6.30A (F1) (C, A)			
27	EF-309388	⚠ FUSE TSC A 250V 0.80A (F2) (J)			•
28	EF-306949	△ FUSE TSC A 250V 1.25A (F3, 4) (J)			
29	EF-341260	⚠ FUSE TSC A 250V 8.00A (F1) (J)			
30	EF-309392	⚠ FUSE TSC 125V 1.25A (F2, 3, 4) (C, A)			
31	EI-338022	IC STK-1080 (2)			
32	EI-200938	IC TA75558S			
33	EJ-337405	△ SOCKET OUTLET S2T733T164 JUC 3×2P (U, J, C, A)			
34	EL-337757	PL LEAD 14.0V 50MA RELAY POWER G2Z-222P-US 2NO			
35	EP-323565	24V			
36	. EP-337416	RELAY SIGNAL G2V-282P-NL 2TR 12V			
37	ER-338000	⚠ R FUSE ERD2FC F10 1/4W 2200G (E, B, S, V)			
38	ER-337756	⚠ R FUSE ERD2FC F10 1/4W 4700G (E, B, S, V)			
39	ER-332225	⚠ R FUSE ERD2FC F10 1/4W 56R0G			
40	ER-332225	⚠ R FUSE ERD2FC F10 1/4W 56R0G (E, B, S, V)			
41	ES-337390	⚠ SW PUSH ESB-70274T 01-1 UC (C)			
42	ES-337390	△ SW PUSH ESB-70274T 01-1 UC (C)			
43	ES-328788	A SW PUSH ESB-90144T 01-1 UC (A)			
44 45	ES-328787 ES-336909	⚠ SW PUSH ESB-90149R 01-1 J (J) ⚠ SW PUSH ESB-90259S 01-1 C (U, E, B, S, V)			
		CAN DITCH CHI 122 A 02-2 S			

SW PUSH SUL122A 02-2 S

ES-337394

1. MAIN AMP P.C BOARD BLOCK

REF. NO.	PARTS NO.	DESCRIPTION	REF. NO.	PARTS NO.	DESCRIPTION
1-1	BA-A2019A060A	PC MAIN AMP BLK AM-61 (U)	1-FR1	ER-332225	⚠ R FUSE ERD2FC F10 1/4W
1-2 1-3	BA-A2019A060B BA-A2019A060C	PC MAIN AMP BLK AM-U61 (J) PC MAIN AMP BLK AM-U61 (C)	1-FR2	ER-338000	56R0G (E, B, S, V) ⚠ R FUSE ERD2FC F10 1/4W
1-4	BA-A2019A060D	(C, A) PC MAIN AMP BLK AM-U61 (E) (E, B, S)	1-FR3,4	ER-337756	2200G (E, B, S, V) A R FUSE ERD2FC F10 1/4W
1-5	BA-A2019A060E	PC MAIN AMP BLK AM-U61-P (U)	1-R17	ER-324337	4700G (E, B, S, V) ⚠ R CB H SNP FS RDS 1/4W 560J (U, J, C, A)
1-6	BA-A2019A060F	PC MAIN AMP BLK AM-U61 (J)	1-R32	ER-337752	⚠ R OMF H FS 1W 103J
1-7	BA-A2019A060G	PC MAIN AMP BLK AM-U61-P (C) (C, A)	1-R35	ER-324185	⚠ R CB H SNP FS RDS 1/4W
1-8	BA-A2019A060H	PC MAIN AMP BLK AM-U61-P (E) (E, B, S)	1-R39, 40	ER-323075	221J (U, J, C, A) ⚠ R CB H SNP FS RDS 1/4W 472J
1-9 1-10	BA-A2019A060J BA-A2019A060K	PC MAIN AMP BLK AM-U61 (V) PC MAIN AMP BLK AM-U61-P	1-R41, 42	ER-322421	⚠ R CB H SNP FS RDS 1/4W 820J
	2.1.1201911	(V)	1-R47, 48	ER-328082	⚠ R CB H SNP FS RDS 1/4W
	MAIN AMPP	C BOARD BLOCK	1- R 51	ER-323075	332J ⚠ R CB H SNP FS RDS 1/4W
1-IC1	EI-200938	IC TA 75558S	1-101	LR-323073	472J
1-IC3	EI-200938	IC TA75558S	1-R52	ER-333689	⚠ R CB H SNP FS RDS 1/2W
I-TRI	ET-328440	TR 2SD863-V8 E, F		211 200007	682J
1-TR2	ET-337984	TR FET 2SK150 BL, GR	1-R59, 60	ER-323075	⚠ R CB H SNP FS RDS 1/4W
1-TR3	ET-337758	TR 2SC2259 G, H	,		472J
1-TR4	ET-308866	TR 2SA979 G, H	1- R 61, 62	ER-316802	⚠ R CB H SNP FS RDS 1/4W
1-TR5	ET-305463	TR 2SA970 GR, BL	·		471Ј
1-TR6	ET-307195	TR 2SC2240 GR, BL	1-R68, 69	ER-337754	⚠ ROMFHSNPFSIW 100J
1-TR7	ET-305463	TR 2SA970 GR, BL	1-R74	ER-337755	⚠ ROMF H SNP FS 2W 222J
1-TR8	ET-307195	TR 2SC2240 GR, BL	1-R75	ER-338084	⚠ R OMF H SNP FS 2W 122J
1-TR9	ET-337985	⚠ TR 2SA1144 O, Y	1-R76	ER-624756	⚠ ROMFHFS2W 331J
1-TR10	ET-337986	⚠ TR 2SC2704 O, Y	1-R80	ER-337754	⚠ R OMF H SNP FS IW 100J
1-TR11	ET-305463	TR 2SA970 GR, BL	1-R90, 91	ER-323075	⚠ R CB H SNP FS RDS 1/4W
1-TR12 to 14	ET-307195	TR 2SC2240 GR, BL			472J
1-TR15	ET-305463	TR2SA970 GR, BL	1-R94, 95	ER-333698	⚠ R CB H SNP FS RDS 1/2W
1-TR16,17	ET-316171	TR 2SC536K-NP E, F			821J
1-TR18	ET-305463	TR 2SA970 GR, BL	1-C27, 28	EC-332052	C EC V FO5 NP SM 4R7M 35DC
1-TR19	ET-328440	TR 2SD863-V8 E, F	1-C31	EC-334013	C EC V CUT NP SM 331M 6.3DC
1-TR20, 21	ET-337759	TR FET 2SK246 GR	1-C42	EC-320548	C CE V F 103Z 250AC (U, J, C, A)
1-TR22	ET-300931	∆ TR 2SD600K E, F	1-C42	EC-326583	C MMY V CUT CF921 473K
1-TR23	ET-301165	△ TR 2SB631K E, F	1.042	EG 220540	400DC (E, B, S, V)
1-TR24	ET-307195	TR 2SC2240 GR, BL TR 2SA984K F	1-C43	EC-320548	C CE V F 103Z 250AC (U, J, C, A)
1-TR25 1-TR26	ET-337760 ET-300931	TR 25A964K F Δ TR 2SD600K E. F	1-C43	EC-326583	C MMY V CUT CF921 473K
1-TR26	ET-301165	△ TR 2SB631K E, F	1 C44 45	EC-320548	400DC (E, B, S, V)
1-1 R2/ 1-D3	ED-200469	D SILICON H DS448 FA5 F10	1-C44, 45 1-C46 to 49		C CE V F 103Z 250AC
1-D3 1-D4 to 7	ED-200469 ED-337153	D SILICON H DS446 FA5 F10 D SILICON H DS446 FA5 F10	1-C50, 51	EC-320548 EC-201643	C CE V F 103Z 250AC
1-D4 t6 /	ED-337133 ED-200469	D SILICON H DS448 FA5 F10	1-C53, 54	EC-201043 EC-316189	C EC V CUT SM 471M 80DC
1-D3, 3	ED-200403 ED-337153	D SILICON H DS446 FA5 F10	1-C59, 60	EC-338032	C EC V F05 SM 1ROM 100DC
1-D11	ED-328481	D ZENER H 05Z20 X	1-037,00	LC-338032	C CE V F05 SL 470K 500DC
1-D12	ED-337153	D SILICON H DS446 FA5 F10		MUTE P.C BOA	ARD BLOCK
1-D13	ED-336805	D SILICON DS135D-KB1	1-SW1	ES-337393	SW PUSH SUL241A 2-THROW
		200/1.0A			
1-D14	ED-337153	D SILICON H DS446 FA5 F10			P.C BOARD BLOCK
1-D15	ED-338041	△ D SILICON 10G4B41 400/10.0A	1-SWI	ES-337392	SW PUSH SUL232S 2-THROW
1-D16	ED-330320	△ D SILICON DBA10C 200/1.0A		LAMP (1) P.C E	BOARD BLOCK
1-D17	ED-306469	D ZENER H 05Z22 X	1-IN1, 2	EL-337757	PL LEAD 14.0V 50MA
1-D18, 19	ED-337990	D ZENER H HZ27L 1	1 1, 2	22 337,137	TE ELIND 14.0 V SOLVIA
1-D20, 21	ED-330218	D ZENER H HZ15L 2		LAMP (2) P.C B	ROARD BLOCK
1-D22	ED-337153	D SILICON H DS446 FA5 F10	1-IN1	EL-337757	PL LEAD 14.0V 50MA
1-D23	ED-337751	D ZENER H 05Z4.3 X	1-D1 to 3	ED-337391	D LED GL-5NG5 GRN
1-D24	ED-338049	D ZENER H 05Z24 Y	1-D4	ED-337391	D LED GL-5NG6 GRN
1-D25, 26	ED-200469	D SILICON H DS448 FA5 F10			
1-D27, 28	ED-337751	D ZENER H 05Z4.3 X		HEAD PHONE	P.C BOARD BLOCK
1-D29	ED-337153	D SILICON H DS446 FA5 F10		(EXCEPT V)	
1-SW1	ES-337389	SW PUSH SUN222A 2-THROW	1-J8	ÈJ-336885	PHONE J 3P HLJ0607-023 6.3
1-SW2	ES-337394	SW PUSH SUL122A 02-2 S	1-J8	EJ-336886	PHONE J 3P HLJ0607-020 6.3 (P)
1-VR1	EV-330725	VR ROTARY 16P20×2D C104			
1-VR2	EV-330843	VR ROTARY 16P20×2E C104			P.C BOARD BLOCK
1-VR3	EV-330724	VR ROTARY 16P20×2C 1Z254		(V ONLY)	
I-RL1	EP-337416	RELAY SIGNAL G2V-282P-NL	1-J8	EJ-336885	PHONE J 3P HLJ0607-023 6.3
1 Dr -	TD 222555	2TR 12V	1-J8	EJ-336886	PHONE J 3P HLJ0607-020 6.3 (P)
1-RL2	EP-323565	RELAY POWER G2Z-222P-US	1-L1	EO-336934	COIL FIX 1 LAL03KH 2.2µH M
1- L 1	EO-332116	2NO 24V COIL FIX 2 103AK-006A 2.2μH			
1	LO-334110	COIL 11Λ 2 103AK-000A 2.2μΠ			

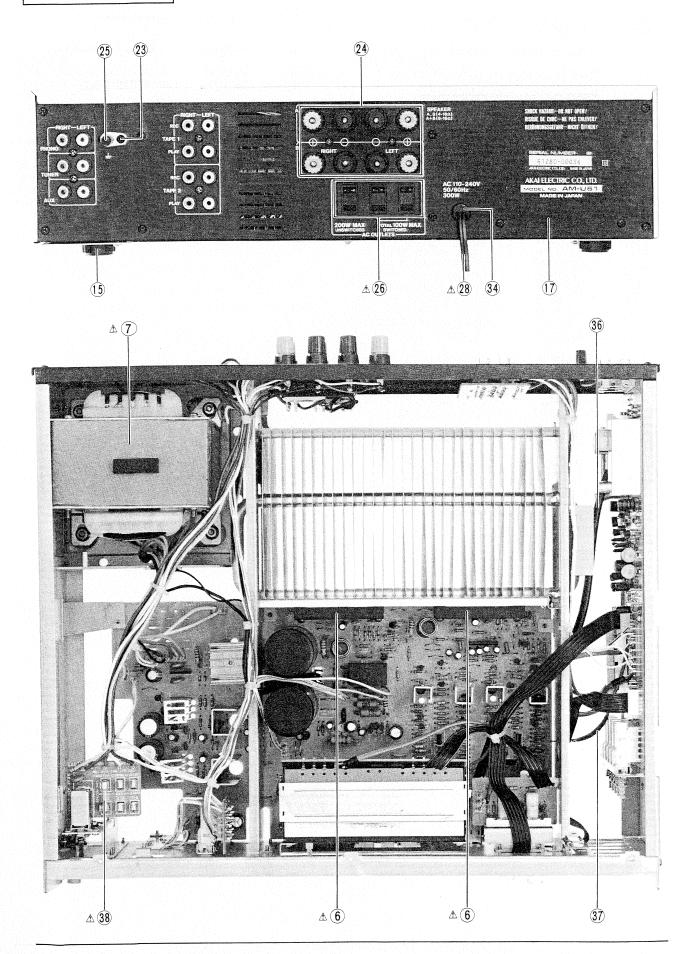
2. EQUALIZER P.C BOARD BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
2-1	BA-A2019A120A	PC EQ BLK AM-U61 (U) (U, J, C, A, E, B, S)
2-2	BA-A2019A120B	PC EQ BLK AM-U61 (V)
	FOUALIZER P.	C BOARD BLOCK
2.101	EI-200938	IC TA75558S
2-IC1	ET-337234	TR FET 2SK270 GR, BL
2-TR1	ET-307195	TR 2SC2240 GR, BL
2-TR2, 3	ET-305463	TR 2SA970 GR, BL
2-TR4 to 6	ET-307195	TR 2SC2240 GR, BL
2-TR7	ET-308977	TR 2SC2274K F
2-TR8	ET-337760	TR 2SA984K F
2-TR9	ED-200469	D SILICON H DS448 FA5 F10
2-D1, 2	ED-200469	D SILICON H DS448 FA5 F10
2-D3	ED-323057	D VARISTER MV12
2-D4	ED-323037 ED-200469	D SILICON H DS448 FA5 F10
2-D5	ED-330218	D ZENER H HZ15L 2
2-D6, 7	EJ-337404	PIN J AJC-052-ABB P 6P
2-J1	ES-337401	SW REMOTE S SSR244 04-4
2-SW1	ES-337998	SW PUSH SUL532A 5-THROW
2-SW2	ES-337400	SW REMOTE S SSR26602D 06-6
2-SW3	EV-338118	R S-FIX V H1052A 3P 0.15A 104
2-VR1	EO-337684	COIL FIX 2 FL12R751E 750μH
2-L1	EO-336934	COIL FIX 1 LAL03KH 2.2µH·M
2-L2, 3	ER-332225	△ R FUSE ERD2FC F10 1/4W
2-FR1,2	ER-332223	56R0G
2-R14	ER-309781	R MF V 1/4W 1200F
2-R15	ER-311768	R MF H 1/4W 2700F
2-R16	ER-337100	R MF H F10 1/4W 9R10F
2-R17	ER-323352	R MF H F10 1/4W 4532F
2-R18	ER-323351	R MF H F10 1/4W 3741F
2-R27, 28	ER-324934	⚠ R CB H SNP FS RDS 1/4W
~		220J
2-R37, 38	ER-200944	\triangle R CB H SNP FS RDS 1/4W 152J
2-C6	EC-324103	C PP V SNP PS 6972G 50DC
2-C7	EC-324102	C PP V SNP PS 2002G 50DC
2-C15, 16	EC-332052	C EC V F05 NP SM 4R7M 35DC
	DIN TACK D	C BOARD BLOCK
0.10.0	EJ-336915	PIN J C-810 P 4P
2-J2, 3	EO-336934	COIL FIX 1 LAL03KH 2.2µH M
2-L1 to 4	EU-330734	(V)

3. POWER P.C BOARD BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
3-SW1	ES-336909	∆ SW PUSH ESB-90259S 01-1 C (U, E, B, S, V)
3-SW1	ES-328787	⚠ SW PUSH ESB-90149R 01-1 J (J)
3-SW1	ES-337390	⚠ SW PUSH ESB-70274T 01-1 UC
3-SW1	ES-328788	(C) \$\triangle \triangle \text{SW PUSH ESB-90144T 01-1 UC} \text{(A)}
3-FL1	EO-338409	⚠ COIL LF FKOB160MH02
		250μH (V)
3-C1	EC-320548	\triangle C CE V F 103Z 250AC (U, J)
3-C1	EC-338411	\triangle C CE V FZ 103P 400AC (B, S, V)
3-C1	EC-330308	⚠ CMMY V ECQUF 103M 250AC
		(E)
3-C1	EC-314688	⚠ C CE V FZ 103P 125AC (C, A)

ASSEMBLY BLOCK



(C, A)

(F2, 3, 4) (E, B, S, V)

DESCRIPTION

RV POP32 (A)

⚠ FUSE ST6 125V 6.30A (F1) (C, A)

⚠ FUSE TSC 125V 1.25A (F2, 3, 4)

∆ FUSE SEMKO T 250V 3.15A (F1) (E, B, S, V)

⚠ FUSE SEMKO T 250V 0.80A

4. ASSEMBLY BLOCK

11 1122		
REF.	PARTS NO.	DESCRIPTION
NO.		
	VR P.C BOAR	D BLOCK
4-1x	EV-337309	VR SLIDE 100P2SV0A B254 (VR1)
		OARD BLOCK D LED GL-5NG6 GRN (D1 to 10)
4-2x	ED-337391	D LED GL-3NG0 GKN (D1 to 10)
	TERMINAL F	P.C BOARD BLOCK
4-3x	EJ-342935	TERMINAL (J1) (V)
4-4x	EO-342936	COIL BALUN (FL1) (V)
		CARD DI OCW
		OARD BLOCK D LED SR538W RED (D1 to 5)
4-5x	ED-337395	D LED SK336W RED (D1 to 3)
	MAIN AMP I	P.C BOARD BLOCK
4-6	EI-338022	⚠ IC STK-1080 (2) (IC2)
, 0		
	ASSEMBLY	BLOCK A TRANSPOWER AM MATERIA
4-7	BT-338030	⚠ TRANS POWER AM-U61T-70 (U)
4.0	BT-338023	⚠ TRANS POWER AM-U61T-10
4-8x	B1-330023	(J)
4-9x	BT-338025	⚠ TRANS POWER AM _t U61T-30
		(C)
4-10x	BT-338024	⚠ TRANS POWER AM-U61T-20 (A)
4 11	BT-338026	⚠ TRANS POWER AM-U61T-40
4-11x	D1-550020	(E)
4-12x	BT-338028	⚠ TRANS POWER AM-U61T-50
	1.	(B, S) ⚠ TRANS POWER AM-U61T-60
4-13x	BT-338029	(V)
4-14x	SP-336494	COVER BOTTOM (B)
4-15	SA-312465	CIRCULAR FOOT (A) PART CA
4-16x	ZS-565942	T2PAN40×08STL CMT
	SP-336440H	PANEL REAR AM-U61 (U)
4-17		PANEL REAR AM-U61 (J)
4-18x	SP-336440G	PANEL REAR AM-U61 (C)
4-19x	SP-336440K	PANEL REAR AM-001 (C)
4-20x	SP-336440J	PANEL REAR AM-U61 (A)
4-21x	SP-336440L	PANEL REAR AM-U61(E) (E, V)
4-22x	SP-336440M	PANEL REAR AM-U61 (B) (B, S)
		T2BR30×08STL BZN PROJECTION
4-23	ZS-308846	TERMINAL W/SCREW ANB-024-
4-24	EJ-337406	AAA S 8P
4.25	EJ-329610	TERMINAL W/SCREW UB-0067 L
4-25	E3-327010	1 P
4-26	EJ-337405	△ SOCKET OUTLET S2T733T164
		JUC 3×2P (U, J, A)
4-27x	EJ-337405	
4.20	EW-306428	△ AC CORD 2 CORES KP-205A,
4-28	£ W-300420	VFF J (U)
4-29x	EW-306427	⚠ AC CORD 2 CORES KP-211,
		VFFJ (J) ⚠ AC CORD 2 CORES KP-8/SPT-1
4-30x	EW-328245	105C UC (C, A)
4-31x	EW-336923	⚠ AC CORD 2 CORES KP-419C,
4-317	F. (220) To	LTCE-2F E (E, V)
4-32x	EW-336926	△ AC CORD GTBS-2F 24/0.20×2 B
	THE 226024	\triangle AC CORD 2 CORES KP-560,
4-33x	EW-336924	LTSA-2FS(S)
4-34	SZ-631945	STRAIN RELIEF SR-4N-4
, , ,		(U,J,C,A,E,S,V)
4-35x	EJ-692908	STRAIN RELIEF SR-5N-4 (B)
4-36	ES-337402	SW REMOTE W SBU004F L=280
4-30	20 001 102	(PHONO MM/MC)
	ma 227700	SW REMOTE W SBU0006F L=120
4-37	ES-337399	5W KENIUTE W SBUUUUUF L-140
4-38	EF-242605	⚠ FUSE SEMKO T 250V 6.30A
	EE (01007	(F1) (U) A FUSE SEMKO T 250V 3.15A
4-39x	EF-691007	(F1) (U)
4-40x	EF-341260	♠ FUSE TSC A 250V 8.00A (F1) (J)
	EF-309388	⚠ FUSE TSC A 250V 0.80A (F2) (J)
4-41x	EF-306949	⚠ FUSE TSC A 250V 1.25A (F3, 4)
4-42x	Cr-300747	(J)
		(6)

REF.

NO.

4-43x

4-44x

4-45x

4-46x

4-47x

PARTS NO.

EF-303348

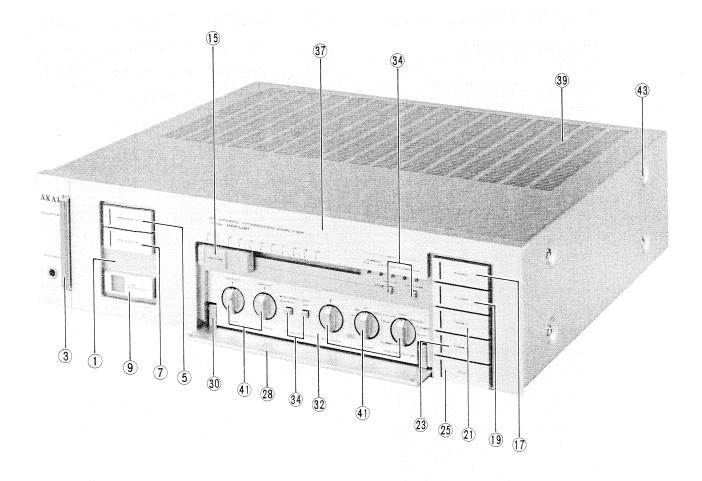
EF-309392

EF-691007

EF-258344

ZW-305013

FINAL ASSEMBLY BLOCK



5. FINAL ASSEMBLY BLOCK

REF. NO.	PARTS NO.	DESCRIPTION	REF. NO.	PARTS NO.	DESCRIPTION
	ESCUTCHEON	PANEL A-2 BLOCK	5-21	SK-B336472J	KNOB OPERATE (A-5)-P PART
5-1		ESCUTCHEON PANEL A-2 BLK	5-22x	SK-B336472K	KNOB OPERATE (A-5)-P PART
5 1	DD .12017	AM-U61	5-23	SK-B336472L	KNOB OPERATE (A-6)-PART
5-2x	BD-A2019A020B	ESCUTCHEON PANEL A-2 BLK	5-24x	SK-B336472M	KNOB OPERATE (A-6)-P PART
3 2A	DD 1120131.22	AM-U61-P	5-25	SK-B336472N	KNOB OPERATE (A-7)-PART
5-3	SK-B336468	KNOB OPERATE PART	5-26x	SK-B336472P	KNOB OPERATE (A-7)-P PART
5-5	SK-B336472A	KNOB OPERATE (A-1) PART	5-27x	ZG-313027	SP T1-5.0/0.32-18.0 T1-140
5-6x	SK-B336472B	KNOB OPERATE (A-1)-P PART	5-28	BD-B336500A	PANEL DOOR PART
5-7	SK-B336472C	KNOB OPERATE (A-2) PART	5-29x	BD-B336500B	PANEL DOOR-P PART
5-8x	SK-B336472D	KNOB OPERATE (A-2)-P PART	5-30	TA-336501A	HINGE
5-9	SK-B336474A	KNOB OPERATE (B) PART	5-31x	TA-336501B	HINGE-P
5-10x	SK-B336474B	KNOB OPERATE (B)-P PART	5-32	SP-336499A	PANEL OPERATION
5-11x	ZG-336460	SP PUSH (D)	5-33x	SP-336499B	PANEL OPERATION
	ESCUTCHEON	PANEL (C) BLOCK		FINAL ASSEN	MBLY BLOCK
5-12	BD-A2019A030A		5-34	SK-336471A	KNOB MUTE (A)
5-12	DD 1120191103011	AM-U61	5-35x	SK-336471B	KNOB MUTE (A)-P
5-13x	BD-A2019A030B	ESCUTCHEON PANEL (C) BLK	5-36x	SK-336471C	KNOB MUTE (B)
J-13X	DD 112019110202	AM-U61-P	5-37	SP-336496A	PANEL FRONT AM-U61
5-14x	TA-336480	GUIDE SLIDE KNOB	5-38x	BD-336496B	PANEL FRONT AM-U61-P
5-15	SK-336479A	KNOB SLIDE	5-39	SP-336443A	COVER UPPER
5-16x	SK-336479B	KNOB SLIDE-P	5-40x	SP-336443B	COVER UPPER-P
5-17	SK-B336472E	KNOB OPERATE (A-3) PART	5-41	SK-336470A	KNOB
5-18x	SK-B336472F	KNOB OPERATE (A-3)-P PART	5-42x	SK-336470B	KNOB-P
5-19	SK-B336472G	KNOB OPERATE (A-4)-P PART	5-43	ZS-322570	ST BID40×08STL NI3
5-20x	SK-B336472H	KNOB OPERATE (A-4)-P PART	5-44x	ZS-322580	ST BID40×08STL BNI

- When ordering parts, please quote Parts Number, Description and Model Number. -

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ED-200469 ED-200469 ED-200469 ED-203547 ED-300257 ED-301911 ED-301911 ED-301911	1-D16 1-D27 1-D25, 26 1-D15 1-D35 1-D43 1-D4 to 6 1-D1 to 3 1-D19 to 21 1-D31, 32	EO-337608 EO-338409 ER-318248 ER-318248 ER-322787 ER-324184 ER-324184 ER-324184 ER-324184	1-L1 3-FL1 1-FR1 1-FR2 1-R129 1-R38 1-R124 1-R118 1-R55 1-R62	SK-342499C SK-342499D SP-332734A SP-332734B SP-332734D SP-332734D SP-332734E SP-332734F SP-332734G SP-332734H	5-21 5-22x 4-1 4-2x 4-3x 4-4x 4-5x 4-6x 4-7x 4-8x		
ED-301911 ED-301911 ED-301911 ED-301911 ED-322238 ED-323057 ED-323216 ED-323216 ED-336805	1-D37 to 39 1-D13, 14 1-D7 to 9 1-D17 1-D42 1-D12 1-D40 1-D45 1-D33, 34 1-D41	ER-324184 ER-324185 ER-324186 ER-324186 ER-324480 ER-337325 ER-337327 ER-337328	1-R7 1-R24 1-R118 1-R204 1-R222 1-R5 1-FL5 1-FL5 1-FL6 1-FL6	SP-332738 SP-332743A SP-332743B SP-332743C SP-332743D SP-332752A SP-332752B SP-332753A SP-332753A SP-332753B SP-332753C	4-26x 5-5x 5-6x 5-7x 5-8x 5-27 5-28x 5-23 5-24x 5-25x		
ED-337413 ED-337414 ED-337605 ED-337606 ED-562386 EE-337570 EE-337577 EE-337976	1-D14 1-D7 to 13 1-D1 to 3 1-D10, 11 1-D44 1-D5, 6 1-7 1-8 4-28 4-38x	ER-337989 ER-338408 ER-341654 ES-328787 ES-328788 ES-336760 ES-336909 ET-307193	1-FL1 to 3 1-FR1 1-FL4 1-SW1 2-SW1 2-SW1 1-SW1 to 20 2-SW1 3-SW1 1-TR53	SP-332753D SZ-332739 SZ-332748 SZ-631945 ZG-313182 ZS-319460 ZS-322570 ZS-322580 ZW-305013 ZW-698308	5-26x 4-17 5-16x 4-15 5-18x 4-18 5-29 5-30x 4-29x 4-24x		,
EF-300599 EF-306088 EF-308933 EF-309389 EF-315334 EF-322975 EF-322975 EF-327103 E1-202218	4-30 4-31x 4-33x 4-35x 4-37x 4-39x	ET-307193 ET-316643 ET-316643 ET-316643 ET-316643 ET-316643 ET-316643 ET-316643	1-TR49 1-TR36 to 44 1-TR48 1-TR32 to 35 1-TR26 1-TR23 1-TR18 1-TR9 to 13 1-TR51, 52 1-TR27				

Parts No.	Ref. No. & Symbol No.	Parts No.	Ref. No. & Symbol No.	Parts No.	Ref. No. & Symbol No.	Parts No.	Ref. No. & Symbol No.
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BA-A2018A060 BA-A2018A060 BD-A2018A030 BD-A2018A030 BT-341430 BT-341431 BT-341432 BT-341433 BT-341434 BT-341435	K 1-10 A 5-14	EO-336934 EO-337684 EO-338409 EO-342936 EP-323565 EP-337416 ER-316802 ER-322361 ER-322591 ER-323075	2-L2, 3 2-L1 3-FL1 4-3x 1-RL2 1-RL1 1-R61, 62 1-R75 1-R41, 42 1-R39, 40	EW-336923 EW-336924 EW-336926 SA-332850 SK-B336468 SK-B336472A SK-B336472B SK-B336472C SK-B336472D SK-B336472E	4-40x 4-42x 4-41x 4-26 5-16 5-19 5-20 5-21x 5-3		
EC-314688 EC-320548 EC-320548 EC-320548 EC-320548 EC-324102 EC-324103 EC-326583 EC-326583	3-C1 1-C42 1-C43 1-C44, 45 1-C46 to 49 3-C1 2-C7 2-C6 1-C42 1-C43	ER-323075 ER-323075 ER-323075 ER-323351 ER-323352 ER-324185 ER-324337 ER-324934 ER-328082 ER-332825	1-R51 1-R59, 60 1-R90, 91 2-R18 2-R17 1-R35 1-R17 2-R27, 28 1-R47, 48 1-FR1	SK-B336472F SK-B336472G SK-B336472H SK-B336472J SK-B336472K SK-B336472L SK-B336472M SK-B336472N SK-B336472P SK-B336474A	5-4x 5-5 5-6x 5-7 5-8x 5-9 5-10x 5-11 5-12x 5-22		
EC-330308 EC-332052 EC-334013 EC-337306 EC-338411 ED-200469 ED-200469 ED-200469 ED-200469 ED-200469	3-C1 1-C27, 28 1-C31 1-C38, 39 3-C1 1-D3 1-D8, 9 1-D25, 26 2-D1 to 3 2-D5	ER-332225 ER-333689 ER-3337100 ER-337752 ER-337754 ER-337755 ER-337756 ER-337999	2-FR1, 2 1-R52 1-R94, 95 2-R16 1-R32 1-R68, 69 1-R80 1-R74 1-FR3, 4 2-R15	SK-B336474B SK-336470A SK-336471A SK-336471B SK-336471B SK-336479A SK-336479B SP-336440A SP-336440B SP-336440C	5-23x 5-31 5-32x 5-25 5-26x 5-1 5-2x 4-8x 4-7 4-10x		
ED-200749 ED-323057 ED-323534 ED-330218 ED-330320 ED-336805 ED-337153 ED-337153 ED-337153	1-D15 2-D4 1-D17 1-D20, 21 1-D16 1-D13 1-D4 to 7 1-D10 1-D12 1-D14	ER-338000 ER-624756 ES-323369 ES-328787 ES-328788 ES-336909 ES-337317 ES-337388 ES-337389 ES-337389	1-FR2 1-R76 2-SW3 3-SW1 3-SW1 4-6 2-SW1 1-SW1 3-SW1	SP-336440D SP-336440E SP-336440F SP-336441 SP-336443A SP-336443B SP-336465A SP-336465B SZ-631945 ZG-313027	4-9x 4-11x 4-12x 4-25x 5-29 5-30x 5-27 5-28x 4-43 5-13x		
ED-337153 ED-337153 ED-337391 ED-337750 ED-337751 ED-337751 ED-337761 ED-33790 ED-338096	1-D22 1-D29 1-D1 to 4 4-1x 1-D11 1-D23 1-D27, 28 1-D24 1-D18, 19 1-D1, 2	ES-337392 ES-337393 ES-337394 ES-337398 ES-337403 ES-337998 ET-300931 ET-300931 ET-301165	1-SW1 1-SW2 4-27 4-5 2-SW2 1-TR26 1-TR22 1-TR27 1-TR23	ZG-336449 ZG-336460 ZS-308846 ZS-308846 ZS-322570 ZS-322580 ZS-522865 ZW-305013	5-17x 5-24x 4-16 4-18 5-34 5-35x 4-14 5-33x		
EF-249851 EF-258344 EF-200952 EF-309388 EF-309391 EF-310229 EF-459843 EF-623125 EF-623125	4-28 4-36x 4-30x 4-31x 4-33x 4-34x 4-32x 4-29x 4-35x 1-IC1	ET-305463 ET-305463 ET-305463 ET-305463 ET-307195 ET-307195 ET-307195 ET-307195 ET-307195	1-TR7 1-TR11 1-TR15 1-TR18 2-TR4 to 6 1-TR8 1-TR12 to 14 1-TR24 2-TR2, 3 2-TR7				
E1-200938 E1-337593 EJ-324913 EJ-329610 EJ-336885 EJ-336886 EJ-336886 EJ-336915 EJ-337404	1-IC3 4-4 2-J4 4-15 1-J8 1-J8 1-J8 1-J8 2-J2 2-J1	ET-308866 ET-308977 ET-316171 ET-328440 ET-337234 ET-337759 ET-337759 ET-337760	1-TR4 2-TR8 1-TR16, 17 1-TR19 1-TR1 2-TR1 1-TR3 1-TR20, 21 1-TR25 2-TR9				· · · · · · · · · · · · · · · · · · ·

Parts No.	Ref. No. & Symbol No.	Parts No.	Ref. No. & Symbol No.	Parts No.	Ref. No. & Symbol No.	Parts No.	Ref. No. & Symbol No.
BA-A2019A00 BA-A2019A00 BA-A2019A00 BA-A2019A00 BA-A2019A00 BA-A2019A00 BA-A2019A00 BA-A2019A00 BA-A2019A00	50B 1-2 60C 1-3 60D 1-4 60E 1-5 60F 1-6 60G 1-7 60H 1-8 60J 1-9	EF-691007 EI-200938 EI-200938 EI-200938 EI-338022 EJ-329610 EJ-336885 EJ-336886 EJ-336886	4-45x 1-IC1 1-IC3 2-IC1 4-6 4-25 1-J8 1-J8 1-J8 1-J8	ET-307195 ET-307195 ET-307195 ET-307195 ET-307195 ET-308866 ET-308977 ET-316171 ET-328440 ET-328440	1-TR8 1-TR12 to 14 1-TR24 2-R2, 3 2-TR7 1-TR4 2-TR8 1-TR 16, 17 1-TR1 1-TR1		
BA-A2019A1 BA-A2019A1 BD-A2019A0 BD-A2019A0 BD-A2019A0 BD-B336500 BD-B336500 BD-336496B BT-338023	20B 2-2 120A 5-1 120B 5-2x 130A 5-12 130B 5-13x A 5-28	EJ-336915 EJ-337404 EJ-337405 EJ-337405 EJ-337406 EJ-342935 EJ-692908 EL-337757 EL-337757 EO-332116	2-J2, 3 2-J1 4-26 4-27x 4-24 4-3x 4-35x 1-IN1, 2 1-IN1 1-L1	ET-337234 ET-337758 ET-337759 ET-337760 ET-337760 ET-337984 ET-337985 ET-337986 EV-330724 EV-330725	2-TR1 1-TR3 1-TR20, 21 1-TR25 2-TR9 1-TR2 1-TR9 1-TR10 1-VR3 1-VR1		
BT-338024 BT-338025 BT-338026 BT-338028 BT-338030 EC-201643 EC-314688 EC-316189 EC-320548	4-10x 4-9x 4-11x 4-12x 4-13x 4-7 1-C50, 51 3-C1 1-C53, 54 1-C42	EO-336934 EO-336934 EO-337684 EO-337684 EO-342936 EP-323565 EP-337416 ER-200944 ER-309781	1-L1 2-L2, 3 2-L1 to 4 2-L1 3-FL1 4-4x 1-RL2 1-RL1 2-R37, 38 2-R14	EV-330843 EV-337309 EV-338118 EW-306427 EW-306428 EW-328245 EW-336923 EW-336924 EW-336926 SA-3,12465	1-VR2 4-1x 2-VR1 4-29x 4-28 4-30x 4-31x 4-33x 4-32x 4-15		
EC-320548 EC-320548 EC-320548 EC-320548 EC-324102 EC-324103 EC-326583 EC-326583 EC-330308 EC-330308	1-C43 1-C44, 45 1-C46 to 49 3-C1 2-C7 2-C6 1-C42 1-C43 3-C1 1-C27, 28	ER-311768 ER-316802 ER-322421 ER-323075 ER-323075 ER-323075 ER-323351 ER-323352 ER-324185	2-R15 1-R61, 62 1-R41, 42 1-R39, 40 1-R51 1-R59, 60 1-R90, 91 2-R18 2-R17 1-R35	SK-B336468 SK-B336472A SK-B336472B SK-B336472C SK-B336472C SK-B336472E SK-B336472F SK-B336472G SK-B336472H SK-B336472J	5-3 5-5 5-6x 5-7 5-8x 5-17 5-18x 5-19 5-20x 5-21		
EC-332052 EC-334013 EC-338032 EC-338411 ED-200469 ED-200469 ED-200469 ED-200469 ED-200469	2-D1, 2 2-D3	ER-324337 ER-324934 ER-328082 ER-332225 ER-333289 ER-333698 ER-337100 ER-337752 ER-337754	1-R17 2-R27, 28 1-R47, 48 1-FR1 2-FR1, 2 1-R52 1-R94, 95 2-R16 1-R32 R68, 69	SK-B336472K SK-B336472L SK-B336472M SK-B336472N SK-B336474A SK-B336474B SK-336470A SK-336470B SK-336471A	5-22x 5-23 5-24x 5-25 5-26x 5-9 5-10x 5-41 5-42x 5-34		
ED-306469 ED-323057 ED-328481 ED-330218 ED-330326 ED-337153 ED-337153 ED-337153	2-D4 1-D11 1-D20, 21 2-D6, 7 1-D16 1-D13 1-D10 1-D12	ER-337754 ER-337755 ER-337756 ER-338000 ER-338084 ER-624756 ES-328787 ES-328788 ES-336909 ES-337389	1-R80 1-R74 1-FR3, 4 1-FR2 1-R75 1-R76 3-SW1 3-SW1 3-SW1 1-SW1	SK-336471B SK-336471C SK-336479A SK-336440B SP-336440H SP-336440J SP-336440L SP-336440L SP-336440M	5-35x 5-36x 5-15 5-16x 4-18x 4-17 4-20x 4-19x 4-21x 4-22x		
ED-33715; ED-33715; ED-33715; ED-33739 ED-33739 ED-33775 ED-33775	3 1-D29 3 1-D4 to 7 1 1-D1 to 3 1 1-D4 1 4-2x 5 4-5x 1 1-D23 1 1-D27, 28	ES-337390 ES-337392 ES-337394 ES-337399 ES-337400 ES-337401 ES-337402 ES-337998 ET-300931	3-SW1 1-SW1 1-SW1 1-SW2 4-37 2-SW3 2-SW1 4-36 2-SW2 1-TR22	SP-336443A SP-336443B SP-336494 SP-336496A SP-336499A SP-336499B SZ-631945 TA-336480 TA-336501A	5-39 5-40x 4-14x 5-37 5-32 5-33x 4-34 5-14x 5-30 5-31x		
ED-33804 ED-33804 EF-24260: EF-25834: EF-30694! EF-30938: EF-30939: EF-34126: EF-69100	1 1-D15 9 1-D24 5 4-38 4 4-46x 8 4-43x 9 4-42x 8 4-41x 2 4-44x 0 4-40x	ET-300931 ET-301165 ET-301165 ET-305463 ET-305463 ET-305463 ET-305463 ET-305463 ET-305463 ET-307195	1-TR26 1-TR23 1-TR27 1-TR5 1-TR7 1-TR11 1-TR15 1-TR18 2-TR4 to 6 1-TR6	ZG-313027 ZG-336460 ZS-308846 ZS-322570 ZS-322580 ZS-565942 ZW-305013	5-27x 5-11x 4-23 5-43 5-44x 4-16x 4-47x		

SECTION 4

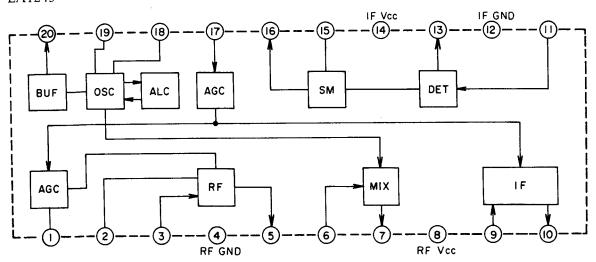
SCHEMATIC DIAGRAM

MODEL AT-S61/L/J MODEL AM-U41, AM-U61

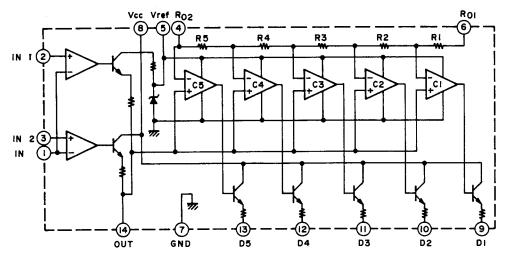
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2.	AT-S61 NO. 1640660A SCHEMATIC DIAGRAM	75
3.	AT-S61L NO. 1640661A SCHEMATIC DIAGRAM	76
4.	FT-S61J NO. 1640662A SCHEMATIC DIAGRAM	77
5.	AM-U41 NO. 1640846A SCHEMATIC DIAGRAM	78
6.	AM-U61 NO. 1640848A SCHEMATIC DIAGRAM	79

SCHEMATIC DIAGRAM OF ICs

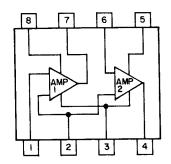
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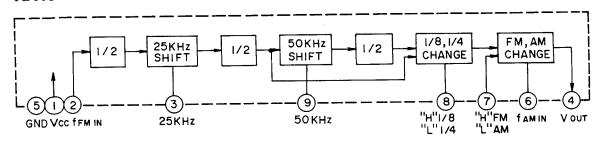
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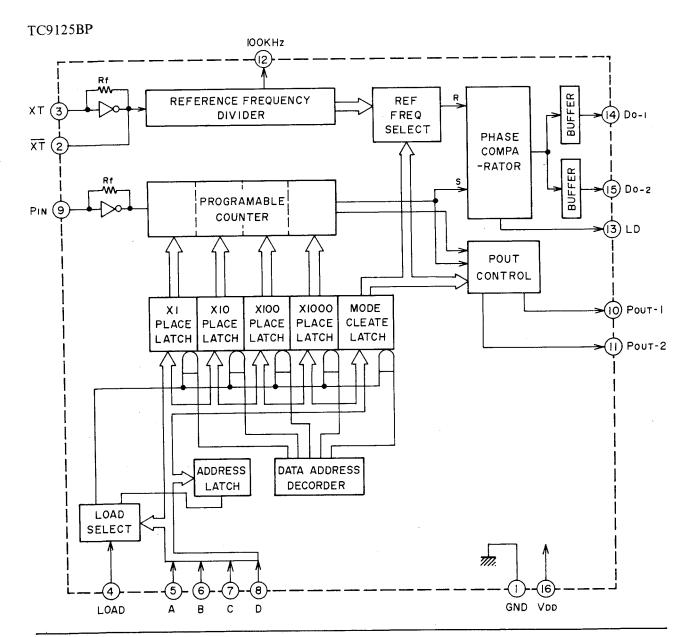


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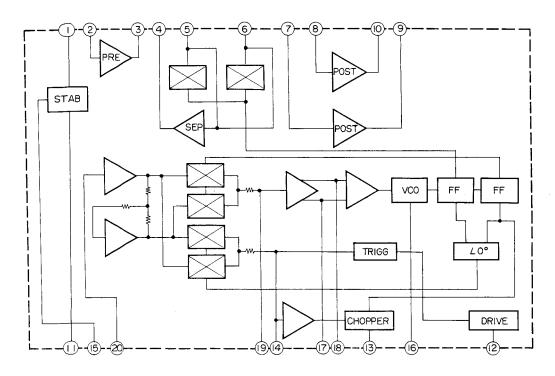


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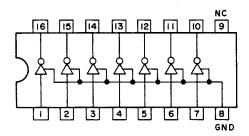




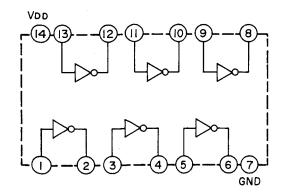
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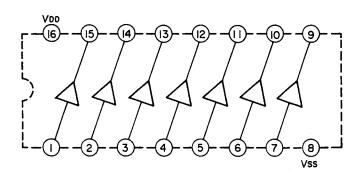
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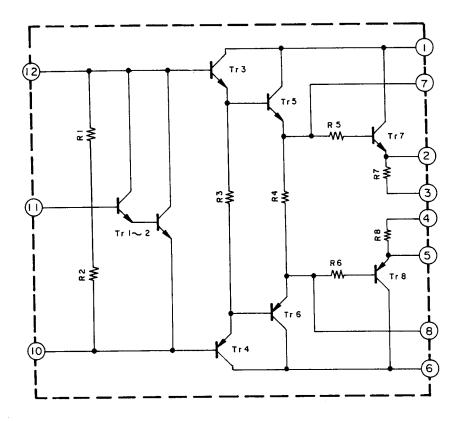
TC4069UB



TC5066BP



STK-1060II



STK-1080II

